

CA1202

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# Servo, Linear & Motion Control Products



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# 2 Motion Controllers



## NextMove e100 (ETHERNET)

Number of Axis	Catalog Number	List Price	Catalog Number	List Price	Mult. Sym.
8	NXE100-1608DB ①	3386	NXE100-1608SB ②	3386	E5
12	NXE100-1612DB ①	4027	NXE100-1612SB ②	4027	E5
16	NXE100-1616DB ①	4668	NXE100-1616SB ②	4668	E5

- ① Differential stepper outputs
- ② For use with DSMS stepper/driver



## NextMove ESB-2

Number of Axis	Catalog Number	List Price	Catalog Number ③	List Price	Mult. Sym.
7	NSB202-501 ①	2506	NSB203-501 ①	2506	E5
7	NSB202-502 ②	2506	NSB203-502 ②	2506	E5
8	NSB204-501 ①	2799	NSB205-501 ①	2799	E5
8	NSB204-502 ②	2799	NSB205-502 ②	2799	E5

- ① USB/RS232
- ② USB/RS485
- ③ For use with DSMS stepper/driver  
ROHS Compatible



## NextMove PCI-2

Number of Axis	Catalog Number (PNP Outputs)	List Price	Catalog Number (NPN Outputs)	List Price	Mult. Sym.
1 ①	PCI201-501	2189	PCI201-511	2189	E5
2 ①	PCI201-502	2335	PCI201-512	2335	E5
3 ①	PCI201-503	2481	PCI201-513	2481	E5
4 ①	PCI201-504	2628	PCI201-514	2628	E5
8 ②	PCI201-508	3211	PCI201-518	3211	E5

- NOTE:** ① User configurable for Servo or Stepper.  
② 4-Axis Servo and 4-Axis Stepper.

Shaded areas are stocked products.

# 1 Axis Motion Controller & Brushless Servo Control



## MintDrive<sup>II</sup> Resolver Feedback-Based Units

Input Voltage		115 VAC 1 $\phi$		230 VAC 1 $\phi$		230-460 VAC 3 $\phi$		
Bus Voltage		160VDC		300VDC		300-650 VDC		
Output Current Amps (rms)		Catalog Number ②	List Price	Catalog Number ②	List Price	Catalog Number ②	List Price	Mult. Sym.
Cont.	Peak							
<b>Customer must supply +24 VDC for logic power</b>								
2.5	5	MDH1A02TB-RN23 ③	1840	MDH2A02TB-RN23 ③	1840	MDH4A02TB-RN23 ③	2461	E5
5	10	MDH1A05TB-RN23 ③	2008	MDH2A05TB-RN23 ③	2008	MDH4A05TB-RN23 ③	2514	E5
7.5	15	MDH1A07TR-RN23 ①	2126	MDH2A07TR-RN23 ①	2126	MDH4A07TR-RN23 ①	2551	E5
15	30	-	-	-	-	MDH4A15TR-RN23 ①	2981	E5
20	40	-	-	-	-	MDH4A20TR-RN23 ①	3369	E5
27.5	55	-	-	-	-	MDH4A27TR-RN23 ①	3754	E5
<b>With 2 CAN ports and Extra I/O - Customer must supply +24 VDC for logic power</b>								
2.5	5	MDH1A02TB-RB23 ③	2281	MDH2A02TB-RB23 ③	2281	MDH4A02TB-RB23 ③	2902	E5
5	10	MDH1A05TB-RB23 ③	2449	MDH2A05TB-RB23 ③	2449	MDH4A05TB-RB23 ③	2955	E5
7.5	15	MDH1A07TR-RB23 ①	2567	MDH2A07TR-RB23 ①	2567	MDH4A07TR-RB23 ①	2992	E5
15	30	-	-	-	-	MDH4A15TR-RB23 ①	3422	E5
20	40	-	-	-	-	MDH4A20TR-RB23 ①	3810	E5
27.5	55	-	-	-	-	MDH4A27TR-RB23 ①	4195	E5

## MintDrive<sup>II</sup> Encoder Feedback-Based Units

<b>Customer must supply +24 VDC for logic power</b>								
2.5	5	MDH1A02TB-EN23 ③	1745	MDH2A02TB-EN23 ③	1745	MDH4A02TB-EN23 ③	2365	E5
5	10	MDH1A05TB-EN23 ③	1913	MDH2A05TB-EN23 ③	1913	MDH4A05TB-EN23 ③	2419	E5
7.5	15	MDH1A07TR-EN23 ①	2030	MDH2A07TR-EN23 ①	2030	MDH4A07TR-EN23 ①	2455	E5
15	30	-	-	-	-	MDH4A15TR-EN23 ①	2886	E5
20	40	-	-	-	-	MDH4A20TR-EN23 ①	3273	E5
27.5	55	-	-	-	-	MDH4A27TR-EN23 ①	3659	E5
<b>With 2 CAN ports and Extra I/O - Customer must supply +24 VDC for logic power</b>								
2.5	5	MDH1A02TB-EB23 ③	2186	MDH2A02TB-EB23 ③	2186	MDH4A02TB-EB23 ③	2806	E5
5	10	MDH1A05TB-EB23 ③	2354	MDH2A05TB-EB23 ③	2354	MDH4A05TB-EB23 ③	2860	E5
7.5	15	MDH1A07TR-EB23 ①	2471	MDH2A07TR-EB23 ①	2471	MDH4A07TR-EB23 ①	2896	E5
15	30	-	-	-	-	MDH4A15TR-EB23 ①	3327	E5
20	40	-	-	-	-	MDH4A20TR-EB23 ①	3714	E5
27.5	55	-	-	-	-	MDH4A27TR-EB23 ①	4100	E5

- NOTES:**
- ① Order regen resistor separately.
  - ② 24V required for operation of I/Os (customer supplied).
  - ③ 2.5 amp models have internal 20W 175 ohm (115/230 VAC) or 300W 200 ohm (230-460 VAC) regen resistor.  
5 amp models have internal 40W 90 ohm (115/230 VAC) or 300W 200 ohm (230-460 VAC) regen resistor.
  - ④ Order encoder model for operation with linear motors.
  - ⑤ Order motor and feedback cables separately.
  - ⑥ Units with BUS Option N have 8/3 I/O and no CAN ports.
  - ⑦ Price of - RN20 same as - RN23; Price of - EN20 same as - EN23.
  - ⑧ For complete details of Catalog I/D, see page 10.
- Shaded areas are stocked products.**



# Brushless Servo Control

## FlexDrive<sup>II</sup> Resolver Feedback-Based Units

Input Voltage		115 VAC 1 $\phi$		230 VAC 1 $\phi$		230-460 VAC 3 $\phi$		
Bus Voltage		160VDC		300VDC		300-650 VDC		
Output Current Amps (rms)		Catalog Number ②	List Price	Catalog Number ②	List Price	Catalog Number ②	List Price	Mult. Sym.
Cont.	Peak							
<b>Customer must supply +24 VDC for logic power</b>								
2.5	5	FDH1A02TB-RN23 ③	1459	FDH2A02TB-RN23 ③	1459	FDH4A02TB-RN23 ③	2011	E3
5	10	FDH1A05TB-RN23 ③	1533	FDH2A05TB-RN23 ③	1533	FDH4A05TB-RN23 ③	2071	E3
7.5	15	FDH1A07TR-RN23 ①	1651	FDH2A07TR-RN23 ①	1651	FDH4A07TR-RN23 ①	2133	E3
15	30	-	-	-	-	FDH4A15TR-RN23 ①	2564	E3
20	40	-	-	-	-	FDH4A20TR-RN23 ①	2951	E3
27.5	55	-	-	-	-	FDH4A27TR-RN23 ①	3336	E3

## FlexDrive<sup>II</sup> Encoder Feedback-Based Units

<b>Customer must supply +24 VDC for logic power</b>								
2.5	5	FDH1A02TB-EN23 ③	1363	FDH2A02TB-EN23 ③	1363	FDH4A02TB-EN23 ③	1916	E3
5	10	FDH1A05TB-EN23 ③	1438	FDH2A05TB-EN23 ③	1438	FDH4A05TB-EN23 ③	1976	E3
7.5	15	FDH1A07TR-EN23 ①	1556	FDH2A07TR-EN23 ①	1556	FDH4A07TR-EN23 ①	2037	E3
15	20	-	-	-	-	FDH4A15TR-EN23 ①	2468	E3
20	40	-	-	-	-	FDH4A20TR-EN23 ①	2855	E3
27.5	55	-	-	-	-	FDH4A27TR-EN23 ①	3241	E3

# 1 Axis Pre-Set Move & Brushless Servo Control

## Flex+Drive<sup>II</sup> Resolver Feedback-Based Units

Input Voltage		115 VAC 1 $\phi$		230 VAC 1 $\phi$		230-460 VAC 3 $\phi$		
Bus Voltage		160VDC		300VDC		300-650 VDC		
Output Current Amps (rms)		Catalog Number ②	List Price	Catalog Number ②	List Price	Catalog Number ②	List Price	Mult.Sym.
Cont.	Peak							
<b>Customer must supply +24 VDC for logic power</b>								
2.5	5	FPH1A02TB-RN23 ③	1601	FPH2A02TB-RN23 ③	1601	FPH4A02TB-RN23 ③	2236	E5
5	10	FPH1A05TB-RN23 ③	1771	FPH2A05TB-RN23 ③	1771	FPH4A05TB-RN23 ③	2292	E5
7.5	15	FPH1A07TR-RN23 ①	1887	FPH2A07TR-RN23 ①	1887	FPH4A07TR-RN23 ①	2341	E5
15	30	-	-	-	-	FPH4A15TR-RN23 ①	2771	E5
20	40	-	-	-	-	FPH4A20TR-RN23 ①	3159	E5
27.5	55	-	-	-	-	FPH4A27TR-RN23 ①	3545	E5

## Flex+Drive<sup>II</sup> Encoder Feedback-Based Units

<b>Customer must supply +24 VDC for logic power</b>								
2.5	5	FPH1A02TB-EN23 ③	1505	FPH2A02TB-EN23 ③	1505	FPH4A02TB-EN23 ③	2140	E5
5	10	FPH1A05TB-EN23 ③	1675	FPH2A05TB-EN23 ③	1675	FPH4A05TB-EN23 ③	2196	E5
7.5	15	FPH1A07TR-EN23 ①	1792	FPH2A07TR-EN23 ①	1792	FPH4A07TR-EN23 ①	2245	E5
15	30	-	-	-	-	FPH4A15TR-EN23 ①	2676	E5
20	40	-	-	-	-	FPH4A20TR-EN23 ①	3063	E5
27.5	55	-	-	-	-	FPH4A27TR-EN23 ①	3450	E5

- NOTES:**
- ① Order regen resistor separately.
  - ② 24V required for operation of I/Os (customer supplied).
  - ③ 2.5 amp models have internal 20W 175 ohm (115/230 VAC) or 300W 200 ohm (230-460 VAC) regen resistor. 5 amp models have internal 40W 90 ohm (115/230 VAC) or 300W 200 ohm (230-460 VAC) regen resistor.

- 4) Order encoder model for operation with linear motors.
- 5) Order motor and feedback cables separately.
- 6) Units with BUS Option N have 8/3 I/O and no CAN ports.
- 7) Price of - RN20 same as - RN23; Price of - EN20 same as - EN23.
- 8) For complete details of Catalog I/D, see page 10.

Shaded areas are stocked products.

# Brushless Servo Control



## MicroFlex e100 (ETHERNET)

<b>Input Voltage</b>		<b>115-230 VAC</b>		
<b>Bus Voltage</b>		<b>160-320 VDC</b>		
<b>Output Current Amps (rms)</b>		<b>Catalog Number ①②</b>	<b>List Price</b>	<b>Multiplier Symbol</b>
<b>Continuous</b>	<b>Peak</b>			
3	6	MFE230A003B	1312	E3
6	12	MFE230A006B ③	1409	E3
9	18	MFE230A009B ③	1674	E3

**NOTE:** Will accept either incremental or absolute encoder feedback (BiSS, EnDat, Hyperface, SSI)  
 ① Order regen resistor separately. ② Customer must supply +24 Vdc for I/O operation.  
 ③ Requires external ventilation. See fan kits.

## MicroFlex

<b>Input Voltage</b>		<b>115-230 VAC</b>				
<b>Bus Voltage</b>		<b>160-320 VDC</b>				
<b>Output Current Amps (rms)</b>		<b>Catalog Number ①②④</b>	<b>List Price</b>	<b>Catalog Number ①②⑤</b>	<b>List Price</b>	<b>Multiplier Symbol</b>
<b>Continuous</b>	<b>Peak</b>					
<b>Encoder/SSI Feedback</b>						
1	2	FMH2A01TR-EN23	997	FMH2A01TR-EN43	997	E3
3	6	FMH2A03TR-EN23	997	FMH2A03TR-EN43	997	E3
6	12	FMH2A06TR-EN23 ③	1094	FMH2A06TR-EN43 ③	1094	E3
9	18	FMH2A09TR-EN23 ③	1359	FMH2A09TR-EN43 ③	1359	E3
<b>Resolver Feedback</b>						
1	2	FMH2A01TR-RN23	1106	FMH2A01TR-RN43	1106	E3
3	6	FMH2A03TR-RN23	1106	FMH2A03TR-RN43	1106	E3
6	12	FMH2A06TR-RN23 ③	1203	FMH2A06TR-RN43 ③	1203	E3
9	18	FMH2A09TR-RN23 ③	1468	FMH2A09TR-RN43 ③	1468	E3

**NOTE:** ① Order regen resistor separately. ② Customer must supply +24 Vdc for I/O operation.  
 ③ Requires external ventilation. See fan kits. ④ RS232 ⑤ RS485

## Fan Kits for use with MicroFlex

<b>Description</b>	<b>Catalog Number</b>	<b>List Price</b>	<b>Multiplier Symbol</b>
Fan Assembly, 24 VDC	FAN001-024	149	E8

Shaded areas are stocked products.

# Brushless Servo Control - Multi-Axis



## MotiFlex e100

Input Voltage		230-460 VAC 50/60 Hz		
Bus Voltage		325-650 VDC		
Output Current Amps (rms)		Catalog Number	List Price	Multiplier Symbol
Continuous	Peak			
1.5	3	MFE460A001B ①	2609	E5
3	6	MFE460A003B ①	2696	E5
6	12	MFE460A006B ①	2843	E5
10.5	21	MFE460A010B ①	3004	E5
16	32	MFE460A016B ①	3165	E5
20	40	MFE460A020B ②	3517	E5
26	54	MFE460A026B ②	3957	E5
33.5	68	MFE460A033B ②	4543	E5

NOTE: ① Size A ② Size B

## Hardware for use with MotiFlex e100

Description	Catalog Number	List Price	Multiplier Symbol
AC power & motor power brackets	OPT-CM-001	58	E8
Signal & feedback cable bracket Size A	OPT-CM-002	112	E8
Signal & feedback cable bracket Size B	OPT-CM-003	112	E8
DC Bus Bars for A size drive (2 each)	OPT-MF-DC-A	36	E8
DC Bus Bars for B size drive (2 each)	OPT-MF-DC-B	40	E8

## AC Line Reactors for use with MotiFlex e100

Control Current Rating	Catalog	List Price	Mult Sym
1 - 6	LRAC02502	748	E8
10 - 16	LRAC03502	796	E8
21 - 33.5	LRAC05502	891	E8



# Accessories

	Catalog Number	List Price	Multiplier Symbol
<b>Plug in Option Cards for use with NextMove PCI-2</b>			
Expansion Card, 4 axes – servo/stepper (PNP output) <sup>③</sup>	PCI202-504	1751	E5
Expansion Card, 4 axes – servo/stepper (NPN output) <sup>③</sup>	PCI202-514	1751	E5
Breakout Unit, with two part connectors <sup>②③</sup>	PCI003-502	895	E5
Expansion Board Interconnect	OPT225-505	89	E5
<b>Plug in Option Cards for use with MintDrive<sup>™</sup> and Flex+Drive<sup>™</sup></b>			
Resolver 9-15 Pin Converter	OPT026-501	46	E5
Auxiliary I/O Breakout Board Cable for OPT017-501 – 6.5 feet (2 meters)	CBL022-501	65	E8
<b>Plug in Option Cards for use with MotiFlex e100 <sup>①</sup></b>			
Analog I/O 16 bit 4 off Inputs and 4 off Outputs Differential +/-1	OPT-MF-001	527	E8
Digital I/O card 6 off digital inputs (AC optos), 4 off digital output	OPT-MF-005	341	E8
Incremental Encoder + Halls with simulated encoder out option	OPT-MF-011	403	E8
Universal Encoder + Halls with simulated encoder out option	OPT-MF-012	433	E8
Resolver with simulated encoder out option card	OPT-MF-013	495	E8
Simulated Encoder output option card	OPT-MF-014	C/F	E8
Option Card Blank Cover (Spare/Replacement)	OPT-MF-000	38	E8
Single Axis Mint Programming Module	OPT-MF-100	1297	E5
4 Axis Mint Programming Module	OPT-MF-101	1867	E5
Fieldbus Carrier option (required for ALL Field bus cards)	OPT-MF-030	233	E8
DeviceNet Fieldbus Option	OPT-FB-001	697	E8
Profibus Fieldbus Option	OPT-FB-002	697	E8
Modbus RTU Fieldbus Option	OPT-FB-003	697	E8
Ethernet/IP Fieldbus Option	OPT-FB-004	774	E8
Modbus TCP Fieldbus Option	OPT-FB-005	774	E8
Profinet I/O Fieldbus Option	OPT-FB-006	774	E8
CC-Link Fieldbus Option	OPT-FB-007	697	E8
Powerlink Fieldbus Option	OPT-FB-008	774	E8
EtherCAT Fieldbus Option	OPT-FB-009	774	E8
<b>Operator Panels for NextMove PCI-2, NextMoveESB, MintDrive<sup>™</sup> and Flex+Drive<sup>™</sup></b>			
HMI Operator Panel (4x20 character LCD display)	KPD-KG420-10	661	E5
HMI Operator Panel (4x20 character LCD + numeric keypad)	KPD-KG420-20	701	E5
HMI Operator Panel (4x20 character LCD + numeric and function keypad)	KPD-KG420-30	1321	E5
HMI Operator Panel (8x45 character LCD + numeric and function keys)	KPD-KG840-10	1823	E5
HMI Operator Panel (3.9" touch screen monochrome)	KPD-TS03M-10	1083	E5
HMI Operator Panel (5.6" touch screen monochrome)	KPD-TS05M-10	1477	E5
HMI Operator Panel (5.6" touch screen color STN)	KPD-TS05C-10	2749	E5
HMI Operator Panel (10" touch screen color TFT)	KPD-TS10C-20	5903	E5
HMI Operator Panel (12.1" touch screen color TFT)	KPD-TS12C-20	7479	E5
CANOpen Module for HMI Panel	KPD-OPTC	393	E5
Gender Changer for use with HMI and RS232 Cable (order separately)	OPT033-501	13	E5
RS232 Cable from PC to any HMI Panel – 3 meters	CBL034-501	137	E8
<b>MintNC Software (HPGL, DXF and G-code) for NextMove PCI-2 and NextMove ESB</b>			
MintNC software	MNC001-501	2498	E5

- ① All fieldbus modules subject to confirmation and 3<sup>rd</sup> party development program. Details and availability to be confirmed.
- ② NextMove PCI-2 breakout module shipped with isolated CAN module fitted to J11 (CAN open slot), non-isolated CAN module fitted to J14 (Baldor CAN) and stepper output module fitted to connectors J15/J16.
- ③ NextMove PCI-2 expansion card shipped with single interconnect board. OPT225-505 must be ordered if two expansion boards are fitted.

Shaded areas are stocked products.

# Accessories

WAGO I/O Expansion Modules	Catalog Number	List Price	Multiplier Symbol
2-Channel Digital Input Module DC 24V	750-400	63	E5
4-Channel Digital Input Module DC 24V	750-402	88	E5
8-Channel Digital Input Module DC 24V	750-430	146	E5
2-Channel Analog Input Module +/-10V	750-456	557	E5
4-Channel Analog Input Module 0-10V	750-468	631	E5
2-Channel Analog Input Module 0-20 mA	750-480	601	E5
2-Channel Analog Input Module 4-20 mA	750-492	601	E5
2-Channel Analog Input Module PT100	750-461	599	E5
2-Channel Digital Output Module DC 24V	750-501	87	E5
4-Channel Digital Output Module DC 24V	750-504	100	E5
8-Channel Digital Output Module DC 24V	750-530	164	E5
2-Channel Analog Output Module 0-10V	750-550	527	E5
2-Channel Analog Output Module 0-20 mA	750-552	527	E5
2-Channel Analog Output Module 4-20 mA	750-554	524	E5
2-Channel Analog Output Module +/-10V	750-556	525	E5
CANopen Coupler	750-338	671	E5
ECO CANopen Coupler ④	750-348	466	E5
End Module	750-600	36	E5
Bus Power Feed Module DC 24V	750-601	53	E5
Field Side Connection Module 0-230V	750-614	44	E5
CANopen - Fieldbus Connector	750-963	66	E5

Cables	Length		Catalog Number	List Price	Multiplier Symbol
	Meters	Feet			
<b>For use with NextMove PCI-2</b>					
Baldor CAN Cables	0.25	0.8	CBL004-501	60	E8
	0.50	1.6	CBL004-502	60	E8
	1	3.2	CBL004-503	62	E8
	2	6.5	CBL004-504	69	E8
	3	9.8	CBL004-505	74	E8
	5	16.3	CBL004-506	106	E8
	10	32.7	CBL004-507	155	E8
	25	81.8	CBL004-508	210	E8
Drive to Motion Controller Cable for use with 23H (DB9 & Flying leads)	1	3.2	CBL010MF-E4A	114	E8
	2	6.5	CBL020MF-E4A	152	E8
	10	32.7	CBL100MF-E4A	470	E8
	20	65.4	CBL200MF-E4A	910	E8
Drive to Motion Controller Cable for use with FlexDrive <sup>II</sup> & MicroFlex (DB9 both ends)	1	3.2	CBL010MF-E3A	117	E8
	2	6.5	CBL020MF-E3A	133	E8
<b>For use with NextMove ESB-2</b>					
Drive to Motion Controller Cable for use with FlexDrive <sup>II</sup> & MicroFlex (DB9 both ends)	1	3.2	CBL010MF-E3B	117	E8
	2	6.5	CBL020MF-E3B	133	E8
<b>For use with NextMove PCI-2</b>					
100 Pin Breakout Cables	1	3.2	CBL021-501	338	E8
	1.5	4.9	CBL021-502	398	E8
	3	9.8	CBL021-503	483	E8
<b>For use with FlexDrive<sup>II</sup>, Flex+Drive<sup>II</sup>, MintDrive<sup>II</sup> and MicroFlex</b>					
RS232 Serial Cable for use with PC	3	9.8	CBL001-501	121	E8

④ Requires Bus Power Feed Module 750-601

Shaded areas are stocked products.

# Accessories

## Regen Resistors For use with MintDrive<sup>II</sup>, Flex+Drive<sup>II</sup>, FlexDrive<sup>II</sup>, MicroFlex, MicroFlex e100

Control Current Rating	Input Voltages-								List Price	Mult. Sym.
	115 VAC		230 VAC 1 $\phi$		230 VAC 3 $\phi$		230-460 VAC 3 $\phi$			
	Catalog	Watts	Catalog	Watts	Catalog	Watts	Catalog	Watts		
3	-	-	RG56	44	-	-	-	-	162	E8
6 - 9	-	-	RG39	100	-	-	-	-	261	E8
7.5	RG22	100	RG39	100	-	-	RG68	320	261	E8
15 - 20	-	-	-	-	RG10	320	RG27A	320	261	E8
27.5	-	-	-	-	-	-	RG11	640	520	E8

### For use with MotiFlex e100 230-460 VAC 50/60 Hz

	Single Drive		Shared DC Bus			List Price	Mult. Sym.
	Catalog	Watts	Catalog	Watts			
1 - 6	RGJ160	100	RGJ1150	100	-	106	E8
	RGJ260	200	RGJ2150	200	-	125	E8
	RGJ360	300	RGJ3150	300	-	150	E8
10 - 16	RGJ533	500	-	-	-	233	E8
	-	-	RGJ368	300	-	150	E8
21 - 33.5	RGJ515	500	-	-	-	233	E8
	-	-	RGJ360	300	-	150	E8

## CE Filters For use with MintDrive<sup>II</sup>, Flex+Drive<sup>II</sup>, FlexDrive<sup>II</sup>, MicroFlex, MicroFlex e100

Control Continuous Current Rating	Input Voltages						Customer Supplied 24 VDC		Mult. Sym.
	115 VAC		230 VAC 1 $\phi$		230-460 VAC 3 $\phi$		Catalog	List Price	
	Catalog	List Price	Catalog	List Price	Catalog	List Price			
2.5, 3	FI0015A00	87	FI0015A00	87	FI0018A00	177	All models FI0014A00	87	E8
5, 6	FI0015A02	139	FI0015A02	139	FI0018A00	177			
7.5, 9	FI0029A00	324	FI0029A00	324	FI0018A00	177			
15, 20, 27.5	-	-	-	-	FI0018A01	296			

### For use with MotiFlex e100 230-460 VAC 50/60 Hz

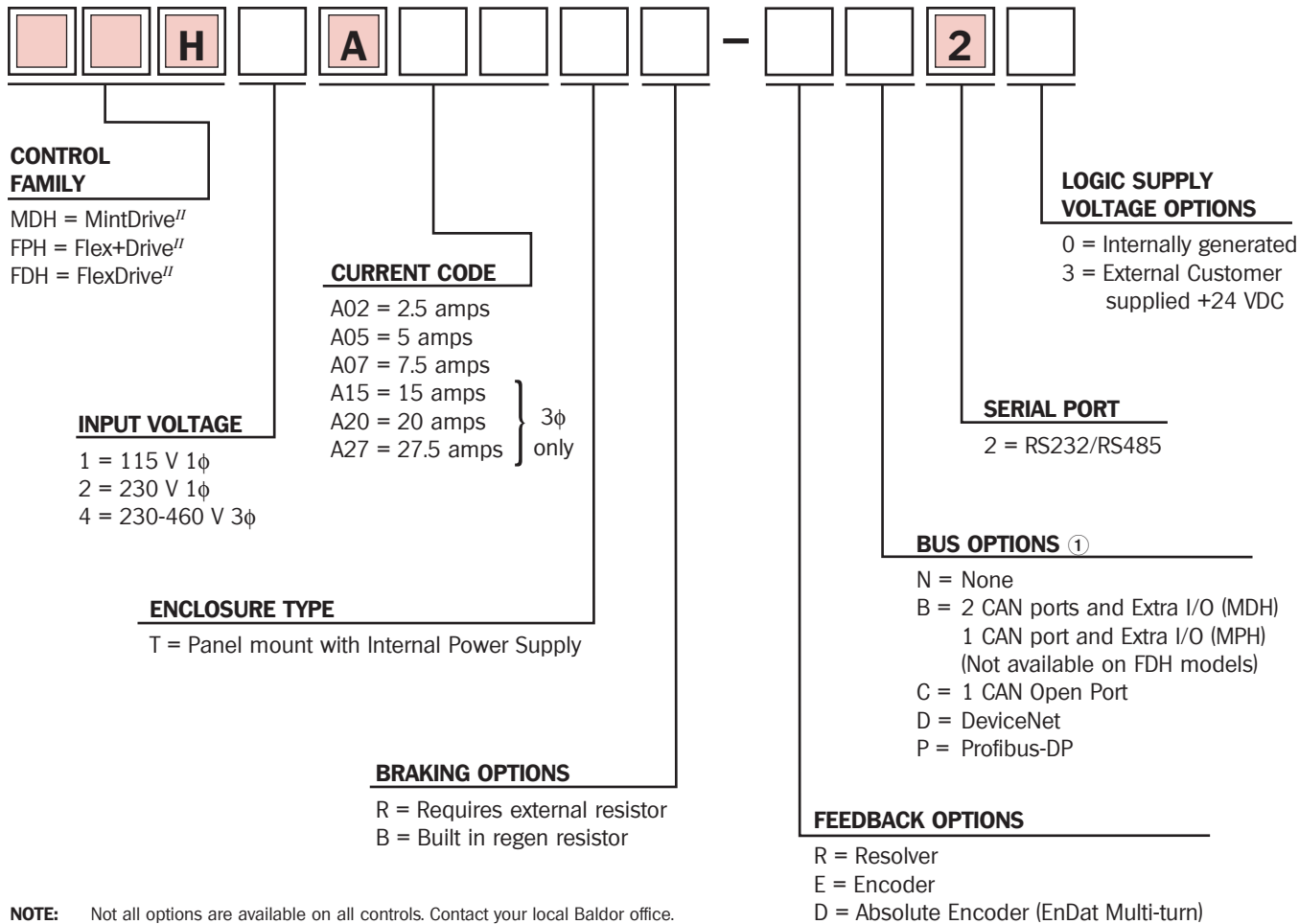
	Catalog	List Price		List Price		List Price	All models FI0014A00	87	E8
1 - 3	-	-	-	-	F10035A00	176			
6 - 10.5	-	-	-	-	F10035A01	208			
10 - 16	-	-	-	-	F10035A02	239			
20	-	-	-	-	F10035A03	357			
26	-	-	-	-	F10035A04	405			
33.5	-	-	-	-	F10035A05	494			

## 24V Power Supply For use with NextMove ESB-2, MintDrive<sup>II</sup>, Flex+Drive<sup>II</sup>, FlexDrive, MicroFlex, MicroFlex e100, Next Move e100, MotiFlex e100

Continuous Current	Catalog	List Price	Mult. Sym.
3.2	DR-75-24	312	E8
5	DR-120-24	356	E8
10	DRP-240-24	618	E8

Shaded areas are stocked products.

# Catalog Identification Matrix For FlexDrive<sup>II</sup>, Flex+Drive<sup>II</sup>, and MintDrive<sup>II</sup>



## Options Chart - List Price Adder

Description	Code	List Price Adder
<b>Feedback Options</b>		
Resolver	R	96
Encoder	E	N/C
Absolute Encoder (En Dat)	D	96
<b>Bus Options</b>		
None	N	STD
2 CAN + Extra I/O (Not available on FDH)	B	441
1 CAN channel	C	236
DeviceNet	D	451
Profibus	P	410
<b>Serial Port Options</b>		
RS232 / RS485	2	STD
<b>Logic Voltage Supply Options</b>		
Internally Generated	0	STD
External Customer Supplied +24VDC	3	N/C

**NOTE:** STD = Standard, N/C = No Charge.

# Brushless Servo Control



## VS1SD AC Servo Control

Input Voltage		230 VAC 3 $\phi$			400 / 460 VAC 3 $\phi$				
Bus Voltage		300 VDC			565 / 650 VDC				
Output Current Amps (rms)		Servo Control Catalog Number	List Price	Mult. Sym	Output Current Amps (rms)		Servo Control Catalog Number	List Price	Mult. Sym.
Cont.	Peak				Cont.	Peak			
3.2	6.4	VS1SD2A3-1B	1439	E3	3.4	6.8	VS1SD4A3-1B	2553	E3
4.2	8.4	VS1SD2A4z-1B	1613	E3	4.8	9.6	VS1SD4A5-1B	2574	E3
6.8	13.6	VS1SD2A7-1B	1862	E3	7.6	15.2	VS1SD4A8-1B	2959	E3
9.6	19.2	VS1SD2A10-1B	2079	E3	11	22	VS1SD4A11-1B	3361	E3
15.2	30.4	VS1SD2A15-1B	2501	E3	14	28	VS1SD4A14-1B	4552	E3
22	44	VS1SD2A22-1B	3510	E3	21	41	VS1SD4A21-1B	4844	E3
28	56	VS1SD2A28-1B	4220	E3	27	54	VS1SD4A27-1B	6238	E3
-	-	-	-	-	34	60	VS1SD4A34-1B	7256	E3
42	84	VS1SD2A42-1B	5343	E3	40	70	VS1SD4A40-1B	9128	E3
54	108	VS1SD2A54-1B	6403	E3	-	-	-	-	-
68	119	VS1SD2A68-1B	8321	E3	65	114	VS1SD4A65-1B	11586	E3
80	140	VS1SD2A80-1B	9596	E3	77	135	VS1SD4A77-1B	13574	E3
104	182	VS1SD2A104-1B	12287	E3	96	168	VS1SD4A96-1B	15681	E3
130	228	VS1SD2A130-1B	15734	E3	124	217	VS1SD4A124-1B	16617	E3
		Washdown			Washdown				
3.2	6.4	VS1SD2A3-4B	1583	E3	3.4	6.8	VS1SD4A3-4B	2753	E3
4.2	8.4	VS1SD2A4-4B	1775	E3	4.8	9.6	VS1SD4A5-4B	3366	E3
6.8	13.6	VS1SD2A7-4B	2049	E3	7.6	15.2	VS1SD4A8-4B	4369	E3
9.6	19.2	VS1SD2A10-4B	2287	E3	11	22	VS1SD4A11-4B	4387	E3
15.2	30.4	VS1SD2A15-4B	2752	E3	-	-	-	-	-
115/230 VAC Standard Models					115/230 VAC Washdown Models				
3.2	6.4	VS1SD6A3-4B	1583	E3	3.2	6.4	VS1SD6A3-4B	1742	E3
4.2	8.4	VS1SD6A4-4B	1775	E3	4.2	8.4	VS1SD6A4-4B	1953	E3
6.8	13.6	VS1SD6A7-4B	2049	E3	6.8	13.6	VS1SD6A7-4B	2254	E3

**NOTE:** 1) Order Regen Resistor & Cables separately. 2) Current specified at 8 KHz PWM frequency. 3) Units may be operated at 2.5 KHz to obtain slightly higher output current; peak current time will be shorter. **Shaded areas are stocked products.**

## Regen Resistors

Input Volts	Control Output Current	Continuous Rated Watts				Mult. Sym.
		600	List Price	1200	List Price	
230	3 - 22	RGA620	572	RGA 1220	849	EC
	28 - 54	-	-	RGA 1206	849	EC
400/460	1 - 5	RGA6120	572	RGA 1212	849	EC
	7 - 11	RGA660	572	RGA 1260	849	EC
	14	RGA630	572	RGA 1230	849	EC
	21 - 27	RGA620	572	RGA 1220	849	EC

## Keypad Extension Cables

Catalog Number	Cable Extension Length	List Price	Mult. Sym.
CBLHH015KP	1.5 Meter (5 Feet)	44	EC
CBLHH030KP	3.0 Meter (10 Feet)	64	EC
CBLHH046KP	4.6 Meter (15 Feet)	83	EC
CBLHH061KP	6.1 Meter (20 Feet)	102	EC
CBLHH091KP	9.1 Meter (30 Feet)	120	EC
CBLHH152KP	15.2 Meter (50 Feet)	171	EC
CBLHH229KP	22.9 Meter (75 Feet)	247	EC
CBLHH305KP	30.5 Meter (100 Feet)	323	EC

## Expansion Boards

Description	Board Number	List Price	Mult. Sym.
Isolated Input Board	EXBHH003A01	211	EC
High resolution analog I/O	EXBHH005A01	330	EC
Master pulse follower	EXBHH007A01	539	EC
Ethernet server expansion	EXBHH001A01	163	EC
Ethernet IP communication expansion	EXBHH012A01	C/F	EC

**Shaded areas are stocked products**

# Brushless AC Servo Motors



## BSM C-Series

Continuous Stall Torque		Continuous Stall Amps	Nominal Bus Volts	Motor Speed (RPM)	Catalog Number With Resolver	List Price	Catalog Number With Encoder	List Price	Multiplier Symbol
Lb-In	N-m								
<b>Threaded Connectors on BSM 50/63/90; Terminal Box on BSM 90/100/132</b>									
10.6	1.2	2.7	300	6000	BSM80C-150AA	939	BSM80C-150AF	1035	E4
		1.9	300	4000	BSM80C-175AA		BSM80C-175AF		E4
21.2	2.4	5.2	300	6000	BSM80C-250AA	993	BSM80C-250AF	1089	E4
		3.2	300	4000	BSM80C-275AA		BSM80C-275AF		E4
		1.6	600	4000	BSM80C-2150AA		BSM80C-2150AF		E4
23	2.1	2.1	300	2000	BSM90C-1150AA	918	BSM90C-1150AF	1014	E4
31.8	3.6	7.8	200	4000	BSM80C-350AA	1024	BSM80C-350AF	1120	E4
		6.3	300	4000	BSM80C-375AA		BSM80C375AF		E4
		3.2	600	4000	BSM80C-3150AA		BSM80C-3150AF		E4
38	4.3	6.3	300	4000	BSM80C-475AA	1058	BSM80C-475AF	1154	E4
		3.1	600	4000	BSM80C-4150AA		BSM80C-4150AF		E4
44.3	5.0	4.0	300	2400	BSM100C-1150AA	1339	BSM100C-1150AF	1435	E4
		2.3	300	1200	BSM100C-1250AA		BSM100C-1250AF		E4
46.0	5.2	9.0	300	4000	BSM90C-275AA	1019	BSM90C-275AF	1115	E4
		4.4	300	2000	BSM90C-2150AA		BSM90C-2150AF		E4
		2.5	300	1200	BSM90C-2250AA		BSM90C-2250AF		E4
69.0	7.8	12.0	300	4000	BSM90C-375AA	1136	BSM90C-375AF	1232	E4
		6.0	600	4000	BSM90C-3150AA		BSM90C-3150AF		E4
		3.5	300	1200	BSM90C-3250AA		BSM90C-3250AF		E4
88.5	10.0	8.0	300	2400	BSM100C-2150AA	1496	BSM100C-2150AF	1592	E4
		5.0	300	1200	BSM100C-2250AA		BSM100C-2250AF		E4
125.7	14.2	11.4	300	2400	BSM100C-3150AA	1686	BSM100C-3150AF	1782	E4
		7.0	300	1200	BSM100C-3250AA		BSM100C-3250AF		E4
177.0	20.0	16.8	300	2400	BSM100C-4150AA	1982	BSM100C-4150AF	2078	E4
		10.6	300	1200	BSM100C-4250AA		BSM100C-4250AF		E4
221.3	25.0	21.0	600	4000	BSM100C-5150AA	2249	BSM100C-5150AF	2345	E4
		13.0	600	2400	BSM100C-5250AA		BSM100C-5250AF		E4
265.5	30.0	24.0	600	4000	BSM100C-6150AA	2393	BSM100C-6150AF	2489	E4
		14.0	600	2400	BSM100C-6250AA		BSM100C-6250AF		E4
469	53	37	650	3500	BSM132C-3200AA	4022	BSM132C-3200AF	4118	E4
619	70	43	650	3500	BSM132C-4200AA	4360	BSM132C-4200AF	4456	E4
770	87	50	650	3500	BSM132C-5200AA	4699	BSM132C-5200AF	4795	E4
929	105	52	650	3500	BSM132C-6200AA	4958	BSM132C-6200AF	5054	E4
973	110	72	650	3500	BSM132C-7200AA	5218	BSM132C-7200AF	5314	E4
1017	115	74	650	3500	BSM132C-8200AA	5478	BSM132C-8200AF	5574	E4
1062	120	79	650	3500	BSM132C-9200AA	5738	BSM132C-9200AF	5834	E4
<b>Rotatable Connectors</b>									
21.4	2.4	3.2	300	4000	BSM80C-275RA	1005	BSM80C-275RF	1101	E4
31.8	3.6	6.3	300	4000	BSM80C-375RA	1036	BSM80C-375RF	1136	E4
38	4.3	6.3	300	4000	BSM80C-475RA	1070	BSM80C-475RF	1166	E4
69	7.8	6.0	600	4000	BSM90C-3150RA	1148	BSM90C-3150RF	1244	E4

See Notes on Page 15

Shaded areas are stocked products

# Brushless AC Servo Motors



## BSM-N Series

Cont. Stall Torque		Cont. Stall Amps	Nominal Bus Volts	Motor Speed (RPM)	Motor Catalog Number With Resolver	List Price	Catalog Number With Encoder	List Price	Mult. Sym.
Lb-In	N-m								
<b>Threaded Connectors on BSM 50/63/90; Terminal Box on BSM 90/100/132</b>									
3.9	0.45	1.49	160	4000	BSM50N-133AA	834	BSM50N-133AF	930	E4
		0.79	300	4000	BSM50N-175AA		BSM50N-175AF		E4
6.8	0.77	2.1	200	6000	BSM63N-133AA	1339	BSM63N-133AF	1435	E4
		1.9	200	4000	BSM63N-150AA		BSM63N-150AF		E4
		1.0	300	4000	BSM63N-175AA		BSM63N-175AF		E4
7.9	0.9	2.8	160	4000	BSM50N-233AA	960	BSM50N-233AF	1056	E4
		1.4	160	2000	BSM50N-275AA		BSM50N-275AF		E4
12	1.36	4.5	160	4000	BSM50N-333AA	1087	BSM50N-333AF	1183	E4
		2.3	300	4000	BSM50N-375AA		BSM50N-375AF		E4
13	1.4	4.2	200	6000	BSM63N-233AA	1474	BSM63N-233AF	1570	E4
		3.0	200	4000	BSM63N-250AA		BSM63N-250AF		E4
		2.1	300	4000	BSM63N-275AA		BSM63N-275AF		E4
14.6	1.6	4.7	200	6000	BSM80N-133AA	1403	BSM80N-133AF	1499	E4
		3.0	300	6000	BSM80N-150AA		BSM80N-150AF		E4
		2.1	300	4000	BSM80N-175AA		BSM80N-175AF		E4
18.5	2	6.2	200	6000	BSM63N-333AA	1635	BSM63N-333AF	1731	E4
		4.4	200	4000	BSM63N-350AA		BSM63N-350AF		E4
		3.0	300	4000	BSM63N-375AA		BSM63N-375AF		E4
28.3	3.2	8.7	200	6000	BSM80N-233AA	1544	BSM80N-233AF	1640	E4
		5.6	200	4000	BSM80N-250AA		BSM80N-250AF		E4
		3.9	300	4000	BSM80N-275AA		BSM80N-275AF		E4
40	4.5	12.9	200	6000	BSM80N-333AA	1748	BSM80N-333AF	1844	E4
		8.6	200	4000	BSM80N-350AA		BSM80N-350AF		E4
		5.5	300	4000	BSM80N-375AA		BSM80N-375AF		E4
53	6	8.0	300	4000	BSM90N-175AA	1819	BSM90N-175AF	1915	E4
		4.1	300	2000	BSM90N-1150AA		BSM90N-1150AF		E4
		2.6	300	1200	BSM90N-1250AA		BSM90N-1250AF		E4
88	10	12.0	300	4000	BSM90N-275AA	2106	BSM90N-275AF	2202	E4
		6.3	300	2000	BSM90N-2150AA		BSM90N-2150AF		E4
		4.3	300	1200	BSM90N-2250AA		BSM90N-2250AF		E4
117	13.3	19	300	4000	BSM90N-375AA	2664	BSM90N-375AF	2760	E4
		8.6	300	2000	BSM90N-3150AA		BSM90N-3150AF		E4
		5.5	300	1200	BSM90N-3250AA		BSM90N-3250AF		E4
123	14.0	9.4	300	2000	BSM100N-1150AA	2339	BSM100N-1150AF	2435	E4
		5.9	300	1200	BSM100N-1250AA		BSM100N-1250AF		E4
203	23.0	15.5	300	2000	BSM100N-2150AA	2790	BSM100N-2150AF	2886	E4
		9.9	300	1200	BSM100N-2250AA		BSM100N-2250AF		E4
300	33.9	21	300	2000	BSM100N-3150AA	3212	BSM100N-3150AF	3308	E4
		14.7	300	1200	BSM100N-3250AA		BSM100N-3250AF		E4
354	40.0	28.9	300	2000	BSM100N-4150AA	3953	BSM100N-4150AF	4049	E4
		18.0	300	1200	BSM100N-4250AA		BSM100N-4250AF		E4
<b>Rotatable Connectors</b>									
6.8	0.77	1.0	300	4000	BSM63N-175RA	1351	BSM63N-175RF	1447	E4
13	1.4	2.1	300	4000	BSM63N-275RA	1486	BSM63N-275RF	1582	E4
18.5	2	3.0	300	4000	BSM63N-375RA	1646	BSM63N-375RF	1742	E4
28.3	3.2	3.9	300	4000	BSM80N-275RA	1556	BSM80N-275RF	1652	E4
40	4.5	5.5	300	4000	BSM80N-375RA	1760	BSM80N-375RF	1856	E4

See Notes on Page 15

Shaded areas are stocked products

# Brushless Servo Motors

## BSM-N Series

Continuous Stall Torque		Continuous Stall Amps	Nominal Bus Volts	Motor Speed (RPM)	Catalog Number	List Price	Multiplier Symbol
Lb-In	N-m						
<b>With Resolver and 24 VDC Brakes</b>							
6.8	0.77	1.0	300	4000	BSM63N-175BA	1699	E4
13	1.4	2.1	300	4000	BSM63N-275BA	1844	E4
14.6	1.6	2.1	300	4000	BSM80N-175BA	1764	E4
18.5	2.0	3.0	300	4000	BSM63N-375BA	2059	E4
28.3	3.2	3.9	300	4000	BSM80N-275BA	1903	E4
40	4.5	5.5	300	4000	BSM80N-375BA	2109	E4
53	6.0	8.0	300	4000	BSM90N-175BA	2264	E4
117	13.3	19	300	4000	BSM90N-375BA	3227	E4
123	14.0	9.4	300	2000	BSM100N-1150BA	3114	E4
300	33.9	21	300	2000	BSM100N-3150BA	4129	E4

NOTE: BA suffix indicates 24 VDC internal electrically released spring set brake.

Shaded areas are stocked products

## Blower Kits For use with BSM 90/100/132 motors

Motor Series	Motor Code	Blower kit for motor			Blower kit for motor/brake			List Price	Multiplier Symbol
		115 vac 1φ	230 vac 1φ	24 vdc	115 vac 1φ	230 vac 1φ	24 vdc		
N-SERIES	BSM90N-2	BSM90N-2FN-1	BSM90N-2FN-8	BSM90N-2FN-D	BSM90N-2FNB-1	BSM90N-2FNB-8	BSM90N-2FNB-D	988	E4
	BSM90N-3	BSM90N-3FN-1	BSM90N-3FN-8	BSM90N-3FN-D	BSM90N-3FNB-1	BSM90N-3FNB-8	BSM90N-3FNB-D		
	BSM100N-3	BSM100N-3FN-1	BSM100N-3FN-8	BSM100N-3FN-D	BSM100N-3FNB-1	BSM100N-3FNB-8	BSM100N-3FNB-D		
	BSM100N-4	BSM100N-4FN-1	BSM100N-4FN-8	BSM100N-4FN-D	BSM100N-4FNB-1	BSM100N-4FNB-8	BSM100N-4FNB-D		
C-SERIES	BSM90C-2	BSM90C-2FN-1	BSM90C-2FN-8	BSM90C-2FN-D	BSM90C-2FNB-1	BSM90C-2FNB-8	BSM90C-2FNB-D		
	BSM90C-3	BSM90C-3FN-1	BSM90C-3FN-8	BSM90C-3FN-D	BSM90C-3FNB-1	BSM90C-3FNB-8	BSM90C-3FNB-D		
	BSM100C-3	BSM100C-3FN-1	BSM100C-3FN-8	BSM100C-3FN-D	BSM100C-3FNB-1	BSM100C-3FNB-8	BSM100C-3FNB-D		
	BSM100C-4	BSM100C-4FN-1	BSM100C-4FN-8	BSM100C-4FN-D	BSM100C-4FNB-1	BSM100C-4FNB-8	BSM100C-4FNB-D		
	BSM100C-5	BSM100C-5FN-1	BSM100C-5FN-8	BSM100C-5FN-D	BSM100C-5FNB-1	BSM100C-5FNB-8	BSM100C-5FNB-D		
	BSM100C-6	BSM100C-6FN-1	BSM100C-6FN-8	BSM100C-6FN-D	BSM100C-6FNB-1	BSM100C-6FNB-8	BSM100C-6FNB-D		

Motor Series	Motor Code	Kit for motor	Kit for motor/brake	List Price	Multiplier Symbol
		230/460 vac 3φ	230/460 vac 3φ		
C-SERIES	BSM132C-3	BSM132C-3FN-7	BSM132C-3FNB-7	1046	E4
	BSM132C-4	BSM132C-4FN-7	BSM132C-4FNB-7		
	BSM132C-5	BSM132C-5FN-7	BSM132C-5FNB-7		
	BSM132C-6	BSM132C-6FN-7	BSM132C-6FNB-7		
	BSM132C-7	BSM132C-7FN-7	BSM132C-7FNB-7		
	BSM132C-8	BSM132C-8FN-7	BSM132C-8FNB-7		
	BSM132C-9	BSM132C-9FN-7	BSM132C-9FNB-7		

## Accessories Flange Adapter Kits

Description	Order Number	List Price	Mult. Sym.
Kit for BSM63A to convert to equivalent 2R mounting (Thickness =0.411) (HA5000A02SP)	2R-BSM63	189	E8
Kit for BSM80A to convert to equivalent 3R mounting (Thickness =0.431) (HA5000A03SP)	3R-BSM80	189	E8
Kit for BSM90A to convert to equivalent 4R mounting (Thickness =0.772) (HA5000A06SP)	4R-BSM90	279	E8
Kit for BSM90 to convert to 56 mounting (Thickness =0.822) (HA5000A08)	56-BSM90	279	E8
Kit for BSM100A to convert to equivalent 6R mounting (Thickness =0.472) (HA5000A07SP)	6R-BSM100	290	E8
Cable Kit for BSM63/80 to convert from threaded style connector to quick style connector	QBSM63/80	321	E8

NOTE: The standard shaft extension will be reduced by the thickness of the above kit adapter flange.

If desired, a custom motor may be ordered with shaft length appropriate for mounting, add \$53 list to motor price.



# Brushless Servo Motor Identification Matrix

## N and C Series

□	□	<b>B</b>	<b>S</b>	<b>M</b>	□	□	□	□	-	□	□	□	□	□	□
Blank = Std		<b>Frame</b>				<b>Series</b>				<b>Motor Size</b>		<b>Winding Code</b>			
SS = Stainless Steel		IEC	NEMA			N				1		50			
Note: Not all options are available on all motors. Contact your local Baldor District Office.		50	5N			C				2		75			
		63	6N							3		etc.			
		80	8N							4					
		90	9N												
		100													

### Motor Options

Description	Connections				
	Standard (Metric) Threaded Style	Optional (Inch) Quick Connect	Cables (5)	Flying Leads (5)	Rotate-able (Metric) Threaded (9)
Motor (No Shaft Seal)	A	I	E	M	R
Motor & Brake	B	J	F	N	S
Motor with Shaft Oil Seal	C	K	G	O	T
Motor with Brake & Shaft Oil Seal	D	L	H	P	U

### Feedback Options

- A = Resolver
- B = Absolute Encoder – Single-Turn (BiSS)
- B2 = Absolute Encoder – Multi-turn (BiSS)
- D = Absolute Encoder – Multi-turn (EnDat)
- D2 = Absolute Encoder – Single-turn (EnDat)
- D3 = Absolute Encoder – Single-turn (Hyperface)
- D4 = Absolute Encoder – Multi-turn (Hyperface)
- S1 = Absolute Encoder – Single-turn (SSI)
- S2 = Absolute Encoder – Multi-turn (SSI)
- E = Incremental Encoder w/Commutation (1000 ppr)
- F = Incremental Encoder w/Commutation (2500 ppr)
- H = Halls only
- V = Encoder mounting only
- Y = Resolver mounting only

### Accessory Options

- Blank = No Option
- M = No Keyway
- N = DIN 42955-R
- O = DIN 42955-R & No Keyway
- P = Optional Motor Connector on BSM 90  
(Note: This option available only if current less than 20 amps)
- X = Special Option (order by spec no. only)
- Z1 = Blower (115 VAC) (not available on all motors)
- Z2 = Blower (230 VAC) (not available on all motors)
- Z3 = Blower (24 VDC)
- Z4 = Blower (230/460 VAC) for BSM132 only.

- NOTE:**
- 1) The standard BSM50/63/80 Series includes feedback, two threaded connectors for feedback and motor terminations, square mounting flange.
  - 2) The standard BSM90/100 Series includes feedback, one threaded connector for feedback termination, termination of motor lead wires on terminal block, square mounting flange.
  - 3) BSM Motors do not have shaft seal as standard. BSM motors are IP60. Motors with meet IP65 with shaft oil seal.
  - 4) SSBSM motors available with IEC mounting and include as standard a shaft seal. SSBSM motors are IP67.

- 5) The standard BSM50 Series has as standard no keyway.
- 6) Shielded cables and flying leads are one meter long as standard.
- 7) Order motor power and feedback cable assemblies as separate items.
- 8) Motors may be used with 115/230/400/460 volt controls. Verify that maximum speed is not exceeded.
- 9) Rotate-able connectors not available on BSM50-Series
- 10) Pricing for NEMA versions 5N, 6N, 8N, and 9N same as 50, 63, 80, and 90.
- 11) Contact Baldor for special options.

# Options Chart - List Price Adder

## N and C Series

Motor Option Description	Code	Motor Series					
		50N (3)	63N	80N 80C	90N 90C (6)	100N 100C (6)	132C (6)
The following options are supplied with either threaded connector (A,B,C,D) or optional quick style connector (I,J,K,L) (7)	(7)						
Motor (No Shaft Seal)	A or I	STD	STD	STD	STD (6)	STD (6)	STD (6)
Motor & Brake	B or J	284	361	361	446	776	1888
Motor with Shaft Oil Seal	C or K	31	31	31	31	31	35
Motor with Brake & Shaft Oil Seal	D or L	315	392	392	477	807	1923
The following options are supplied with shielded cables (length = 1 meter)							
Motor (No Shaft Seal)	E	N/C	N/C	N/C	29	29	N/A
Motor & Brake	F	284	361	361	474	803	N/A
Motor with Shaft Oil Seal	G	31	31	31	56	56	
Motor with Brake & Shaft Oil Seal	H	315	392	392	530	859	
The following options are supplied with flying leads (length = 1 meter)							
Motor (No Shaft Seal)	M	-125	-125	-125	-63	-63	N/A
Motor & Brake	N	143	221	221	376	706	N/A
Motor with Shaft Oil Seal	O	-100	-100	-100	-38	-38	
Motor with Brake & Shaft Oil Seal	P	171	249	249	404	743	
The following options are supplied with rotatable (metric) threaded connectors (3) (4) (5)					(8)	(8)	(9)
Motor (no shaft seal)	R	N/A	12	12	N/C	N/C	88
Motor and brake	S	N/A	373	373	446	776	1976
Motor with shaft oil seal	T	N/A	43	43	31	31	123
Motor with brake and shaft oil seal	U	N/A	416	416	477	807	2011

- NOTE:** STD = Standard                      C/F = Contact factory  
 N/C = No additional charge              N/A = Not available
- Do not specify this option (accessory option "P") if motor continuous current is greater than 20 Amps. Connector mounted on terminal box not rotatable.
  - Standard fail safe brake is 24VDC.
  - Rotatable thru 180 degrees (**not available on BSM50-series**)
  - Rotatable connectors for power and feedback with no junction box on BSM90/100/132 motors.
  - Rotate-able connectors are **not available on SSBSM-series**
  - Motors come standard with terminal box. Strain relief for motor power and connector for feedback.
  - Option I, J, K, L not available on BSM132
  - 30 amp rotatable connector (no junction box)
  - 70 amp rotatable connector (no junction box)
  - Refer to other pages for cable assemblies and flange adapter kits.

# Options Chart - Continued

## N and C Series

Motor Option Description	Code	Motor Series					
		50N(3)	63N	80N 80C	90N 90C	100N 100C	132C
<b>Feedback Option Description</b>	<b>Code</b>						
Resolver	A			STD			
Incremental Encoder with Hall Commutation (1000ppr) (DYNAPAR)	E			96			
(2500ppr) (DYNAPAR)	F			96			
(2000 - 5000)	"C/F"			96			
Absolute Encoder - Single-turn							
BISS (DYNAPAR)	B			161			
EnDat (HEIDENHAIN)	D2			485			
Hyperface (STEGMANN)	D3			688			
SSI (BAUMER)	S1			206			
Absolute Encoder - Multi-turn							
BISS (DYNAPAR)	B2			316			
EnDat (HEIDENHAIN)	D			948			
Hyperface (STEGMANN)	D4			1665			
SSI (BAUMER)	S2			C/F			
Special Feedback	X			C/F			
Standard Resolver Mounting Only	Y			- 125			
Halls Only	H			- 63			
<b>Accessory Option Description</b>	<b>Code</b>						
No Option	BLANK			STD			
No Keyway	M			N/C			
DIN Standard 42955-R	N			121			
DIN 42955-R & NO Keyway	O			196			
Optional Motor Power Connector ①	P	STD	STD	STD	108	N/A	N/A
Blower, External (single phase)	Z1, Z2, Z3	N/A	N/A	N/A	988	988	N/A
Blower, External for BSM132 only	Z4	N/A	N/A	N/A	N/A	N/A	1046

**NOTE:** STD = Standard                      C/F = Contact factory  
 N/C = No additional charge              N/A = Not available  
 1) Do not specify this option (accessory option "P") if motor's continuous current is greater than 20 Amps.

**Connector mounted on terminal  
 box not rotatable**

# Servo Motor Gearhead Designed Specifically for BSM Servo



AC Motors

Gearhead Catalog Number	Gear fits these motors		Gear Ratio	List Price	Mult. Sym.
	BSM-N	BSM-C			
GBSM50-MRP050-5 (1)	BSM50N-1 or -2	—	5	1038	E4
GBSM50-MRP050-10 (1)	BSM50N-1	—	10	1038	E4
GBSM63-MRP070-5 (1)	BSM63N-all	—	5	1176	E4
GBSM63-MRP070-10 (1)	BSM63N-1 or -2	—	10	1176	E4
GBSM63-MRP090-25 (1)	BSM63N-1 or -2	—	25	1971	E4
GBSM63-MRP090-50 (1)	BSM63N-1	—	50	1971	E4
GBSM80-MRP090-4 (2)	BSM80N-all	BSM80C-all	4	1383	E4
GBSM80-MRP090-5 (2)	BSM80N-all	BSM80C-all	5	1383	E4
GBSM80-MRP090-7 (2)	BSM80N-all	BSM80C-all	7	1383	E4
GBSM80-MRP090-10 (2)	BSM80N-1 or -2	BSM80C-1 or -2	10	1383	E4
GBSM80-MRP090-16 (1)	BSM80N-1 or -2	BSM80C-1 or -2	16	1971	E4
GBSM80-MRP090-25 (1)	BSM80N-1	BSM80C-1	25	1971	E4
GBSM80-MRP120-50 (1)	BSM80N-1 or -2	BSM80C-1 or -2	50	2393	E4
GBSM80-MRP155-100 (1)	BSM80N-1	BSM80C-1	100	2896	E4
GBSM90-MRP120-4 (2)	BSM90N-all	BSM80C-all	4	1765	E4
GBSM90-MRP120-5 (2)	BSM90N-all	BSM80C-all	5	1765	E4
GBSM90-MRP120-7 (2)	BSM90N-all	BSM80C-all	7	1765	E4
GBSM90-MRP120-10 (2)	BSM90N-1	BSM90C-1 or -2	10	1765	E4
GBSM90-MRP120-25 (1)	BSM90N-1	BSM90C-1 or -2	25	2393	E4
GBSM90-MRP155-10 (2)	BSM90N-all	BSM90C-3	10	2224	E4
GBSM90-MRP155-25 (1)	BSM90N-all	BSM90C-3	25	2896	E4
GBSM100-MRP120-3 (2)	BSM100N-all	BSM100C-all	3	1765	E4
GBSM100-MRP120-5 (2)	BSM100N-1 or -2	BSM100C-1-2-3-4	5	1765	E4
GBSM100-MRP155-5 (2)	BSM100N-3 or -4	BSM100C-5 or -6	5	2224	E4
GBSM100-MRP155-10 (2)	BSM100N-1	BSM100C-1 or -2 or -3	10	2224	E4

(1) Max Backlash 12 arc-min  
 (2) Max Backlash 10 arc-min

Shaded areas are stocked products

## Standard Gearheads

Gearhead Type	Number of Stages	Ratios Available	Backlash Arc-min	List Price	Mult. Sym.
MRP 050 (2)	1	4-5-7-10	12	1038	E4
	2	16-20-25-35-40-50-70-100	15	1474	E4
MRP 070 (2)	1	3-4-5-7-10	12	1176	E4
	2	16-20-25-35-40-50-70-100	15	1721	E4
MRP 090 (2)	1	3-4-5-7-10	10	1383	E4
	2	16-20-25-35-40-50-70-100	12	1970	E4
MRP 120 (2)	1	3-4-5-7-10	10	1765	E4
	2	16-20-25-35-40-50-70-100	12	2393	E4
MRP 155 (2)	1	3-4-5-7-10	10	2224	E4
	2	16-20-25-35-40-50-70-100	12	2896	E4

## Higher Torque / Lower Backlash Gearhead

Gearhead Type	Number of Stages	Ratios Available	Standard Arc-min Backlash	List Price	Reduced Arc-min Backlash	List Price	Mult. Sym.
MNT 065 (2)	1	3-4-5-7-10	15	1597	5	1916	E4
	2	16-20-25-35-40-50-70-100	15	2399	5	2885	E4
MNT 080 (2)	1	3-4-5-7-10	10	2259	5	2584	E4
	2	16-20-25-35-40-50-70-100	10	2933	5	3366	E4
	3	125 & 175	10	C/F	5	C/F	E4
MNT 115 (2)	1	3-4-5-7-10	10	3147	5	3625	E4
	2	16-20-25-35-40-50-70-100	10	3885	5	4449	E4
	3	125 & 175	10	C/F	5	C/F	E4
MNT 140 (2)	1	3-4-5-7-10	10	4536	5	5188	E4
	2	16-20-25-35-40-50-70-100	10	5597	5	6447	E4
	3	125 & 175	10	C/F	5	C/F	E4
MNT 180 (2)	1	3-4-5-7-10	6	6055	3	6922	E4
	2	16-20-25-35-40-50-70-100	6	7333	3	8399	E4
	3	125 & 175	6	C/F	3	C/F	E4
MNT 210 (2)	1	3-4-5-7-10	6	10233	3	11612	E4
	2	16-20-25-35-40-50-70-100	6	13034	3	14882	E4
	3	125 & 175	6	C/F	3	C/F	E4

## Right Angle Gearheads

MRA 065 (2)	1	3-4-5-7-10	15	2739	5	3012	E4
	2	16-20-25-35-50-70-100	15	3346	5	3676	E4
MRA 080 (2)	1	3-4-5-7-10	10	3614	5	3976	E4
	2	16-20-25-35-40-50-70-100	10	4247	5	4675	E4
	3	125-175	10	C/F	5	C/F	E4
MRA 115 (2)	1	3-4-5-7-10	10	4621	5	5083	E4
	2	16-20-25-35-40-50-70-100	10	5399	5	5942	E4
	3	125-175	10	C/F	5	C/F	E4
MRA 140 (2)	1	3-4-5-7-10	10	5808	5	6160	E4
	2	16-20-25-35-40-50-70-100	10	7009	5	7706	E4
MRA 180 (2)	1	3-4-5-7-10	10	8628	5	9662	E4
	2	16-20-25-35-40-50-70-100	10	10376	5	11623	E4

**NOTE:** 1) **HOW TO ORDER CUSTOM: EMAIL SCHEDULING, THE BALDOR SERVO MOTOR MODEL NUMBER, GEARHEAD TYPE, RATIO AND BACKLASH. DO NOT ENTER REQ SET.**

2) Ordering nonmenclature: GBSM80-MRP050-10

G BSM50 - MRP050 - 10  
Gear Motor Gearhead type Ratio

C/F = Contact Factory

# Stainless Steel Brushless AC Servo Motors - SSBSM Series



Continuous Stall Torque		Continuous Stall Amps	Nominal Bus Volts	Motor Speed (RPM)	Motor Catalog Number with Resolver	List Price	Motor Catalog Number with Encoder	List Price	Multiplier Symbol
Lb-In	N-m								
3.9	0.45	0.8	300	4000	SSBSM50N-175CA	2161	SSBSM50N-175CF	2257	E4
7.9	0.9	1.4	160	2000	SSBSM50N-275CA	2287	SSBSM50N-275CF	2383	E4
12	1.3	2.4	300	4000	SSBSM50N-375CA	2414	SSBSM50N-375CF	2510	E4
11	1.2	1.7	300	4000	SSBSM63N-275CA	2849	SSBSM63N-275CF	2945	E4
18.5	1.7	2.5	300	4000	SSBSM63N-375CA	3010	SSBSM63N-375CF	3106	E4
23	2.5	3.1	300	4000	SSBSM80N-275CA	2814	SSBSM80N-275CF	2910	E4
32	3.6	4.4	300	4000	SSBSM80N-375CA	3017	SSBSM80N-375CF	3113	E4
42	4.8	3.3	300	2000	SSBSM90N-1150CA	3348	SSBSM90N-1150CF	3444	E4
70	7.9	5	300	2000	SSBSM90N-2150CA	3636	SSBSM90N-2150CF	3732	E4
94	10	7.1	300	2000	SSBSM90N-3150CA	4192	SSBSM90N-3150CF	4288	E4
163	18	13.4	300	2000	SSBSM100N-2150CA	4624	SSBSM100N-2150CF	4720	E4
240	27	18.3	300	2000	SSBSM100N-3150CA	5146	SSBSM100N-3150CF	5242	E4
283	32	14.4	300	1200	SSBSM100N-4250CA	5887	SSBSM100N-4250CF	5983	E4
8	0.9	1.9	300	4000	SSBSM80C-175CA	2208	SSBSM80C-175CF	2304	E4
16.8	1.9	2.6	300	4000	SSBSM80C-275CA	2264	SSBSM80C-275CF	2360	E4
25	2.8	5	300	4000	SSBSM80C-375CA	2295	SSBSM80C-375CF	2391	E4
30	3.4	5	300	4000	SSBSM80C-475CA	2329	SSBSM80C-475CF	2424	E4
37	4.2	3.5	300	2000	SSBSM90C-2150CA	2548	SSBSM90C-2150CF	2644	E4
55	6.2	4.8	300	2000	SSBSM90C-3150CA	2665	SSBSM90C-3150CF	2761	E4
71	8	6.4	300	2400	SSBSM100C-2150CA	3328	SSBSM100C-2150CF	3424	E4
100	11.3	9.1	300	2400	SSBSM100C-3150CA	3519	SSBSM100C-3150CF	3615	E4
142	16	13.5	300	2400	SSBSM100C-4150CA	3814	SSBSM100C-4150CF	3910	E4
177	20	16.8	600	4000	SSBSM100C-5150CA	4082	SSBSM100C-5150CF	4178	E4
212	24	19.2	600	4000	SSBSM100C-6150CA	4225	SSBSM100C-6150CF	4321	E4

**NOTE:** Standard SSBSM series includes IEC mounting flange.  
 Standard SSBSM50 has an standard no keyway and no tap on shaft end.  
 Standard SSBSM50/63/80/90/100 include two threaded stainless steel connectors for feedback and motor termination.  
 Order feedback and power cables separately.  
 Standard motor has teflon stainless steel seal with Viton O-rings.  
 Standard encoder is 2500 ppr.

Shaded areas are stocked products

AC Motors

# Stainless Steel Gearheads

## Designed Specifically For SSBSM Servo



### Higher Torque / Lower Backlash Gearheads

Gearhead Type	Number of Stages	Ratios Available	Standard Arc-min Backlash	List Price	Mult. Sym.
MSS 080	1	3-4-5-7-10	10	3387	E4
	2	16-20-25-35-40-50-70-100	10	4399	E4
	3	125-175 & UP	10	C/F	E4
MSS 115	1	3-4-5-7-10	10	4721	E4
	2	16-20-25-35-40-50-70-100	10	5828	E4
	3	125-175 & UP	10	C/F	E4
MSS 140	1	3-4-5-7-10	10	6804	E4
	2	16-20-25-35-40-50-70-100	10	8395	E4
	3	125-175 & UP	10	C/F	E4

### Right Angle Gearheads

	Number of Stages	Ratios Available	Standard Arc-min Backlash	List Price	Reduced Arc-min Backlash	List Price	Mult. Sym.
MRS 080	1	3-4-5-7-10	10	5781	5	6361	E4
	2	16-20-25-35-40-50-100	10	6795	5	7478	E4
MRS 115	1	3-4-5-7-10	10	7391	5	8132	E4
	2	16-20-25-35-40-50-100	10	8638	5	9504	E4
MRS 140	1	3-4-5-7-10	10	9291	5	10222	E4
	2	16-20-25-35-40-50-100	10	11212	5	12360	E4

**NOTE:** 1) **HOW TO ORDER CUSTOM: EMAIL SCHEDULING, THE BALDOR SERVO MOTOR MODEL NUMBER, GEARHEAD TYPE, RATIO AND BACKLASH. DO NOT ENTER REQ SET.**

2) Ordering nonmenclature: GBSM80-MSS080-3

G BSM90 - MSS115 - 3

Gear Motor Gearhead type Ratio

C/F = Contact Factory

# Raw Cable and Cable Assemblies

## Motor Power Cables

Current Rating	Length		Cable Assemblies			Raw Cable			Stainless Steel Cables		
	Feet	Meters	Threaded ③ CE Connector	List Price	Mult. Sym.	No Connector	List Price	Mult. Sym.	Threaded ③ CE Connector	List Price	Mult. Sym.
12	5	1.5	CBL015SP-12	168	E8	CBL015RP-12	37	E8	CBL015SP-12S	373	E8
	10	3.0	CBL030SP-12	202	E8	CBL030RP-12	71	E8	CBL030SP-12S	428	E8
	20	6.1	CBL061SP-12	270	E8	CBL061RP-12	139	E8	CBL061SP-12S	492	E8
	30	9.1	CBL091SP-12	338	E8	CBL091RP-12	209	E8	CBL091SP-12S	553	E8
	50	15.2	CBL152SP-12	476	E8	CBL152RP-12	344	E8	CBL152SP-12S	671	E8
	75	22.9	CBL229SP-12	646	E8	CBL229RP-12	517	E8	-	-	-
	100	30.5	CBL305SP-12	816	E8	CBL305RP-12	687	E8	-	-	-
	250	76.0	-	-	-	CBL760RP-12	1714	E8	-	-	-
	500	152.5	-	-	-	CBL1525RP-12	3424	E8	-	-	-
20	5	1.5	CBL015SP-20	214	E8	CBL015RP-20	44	E8	CBL015SP-20S	393	E8
	10	3.0	CBL030SP-20	257	E8	CBL030RP-20	86	E8	CBL030SP-20S	429	E8
	20	6.1	CBL061SP-20	338	E8	CBL061RP-20	168	E8	CBL061SP-20S	495	E8
	30	9.1	CBL091SP-20	420	E8	CBL091RP-20	249	E8	CBL091SP-20S	567	E8
	50	15.2	CBL152SP-20	584	E8	CBL152RP-20	413	E8	CBL152SP-20S	696	E8
	75	22.9	CBL229SP-20	790	E8	CBL229RP-20	619	E8	-	-	-
	100	30.5	CBL305SP-20	994	E8	CBL305RP-20	823	E8	-	-	-
	250	76.0	-	-	-	CBL760RP-20	2054	E8	-	-	-
	500	152.5	-	-	-	CBL1525RP-20	4106	E8	-	-	-
35	5	1.5	-	-	-	CBL015RP-35	77	E8	-	-	-
	10	3.0	-	-	-	CBL030RP-35	150	E8	-	-	-
	20	6.1	-	-	-	CBL061RP-35	276	E8	-	-	-
	30	9.1	-	-	-	CBL091RP-35	413	E8	-	-	-
	50	15.2	-	-	-	CBL152RP-35	687	E8	-	-	-
	75	22.9	-	-	-	CBL229RP-35	1030	E8	-	-	-
	100	30.5	-	-	-	CBL305RP-35	1371	E8	-	-	-
	250	76.0	-	-	-	CBL760RP-35	3424	E8	-	-	-
50	5	1.5	-	-	-	CBL015RP-50	161	E8	-	-	-
	10	3	-	-	-	CBL030RP-50	271	E8	-	-	-
	20	6.1	-	-	-	CBL061RP-50	518	E8	-	-	-
	30	9.1	-	-	-	CBL091RP-50	760	E8	-	-	-
	50	15.2	-	-	-	CBL152RP-50	1249	E8	-	-	-
	75	22.9	-	-	-	CBL229RP-50	1861	E8	-	-	-
	100	30.5	-	-	-	CBL305RP-50	2474	E8	-	-	-
90	5	1.5	-	-	-	CBL015RP-90	200	E8	-	-	-
	10	3	-	-	-	CBL030RP-90	349	E8	-	-	-
	20	6.1	-	-	-	CBL061RP-90	678	E8	-	-	-
	30	9.1	-	-	-	CBL091RP-90	999	E8	-	-	-
	50	15.2	-	-	-	CBL152RP-90	1648	E8	-	-	-
	75	22.9	-	-	-	CBL229RP-90	2463	E8	-	-	-
	100	30.5	-	-	-	CBL305RP-90	3275	E8	-	-	-

AC Motors



# Raw Cable and Cable Assemblies

## Feedback Cables

Item	Length		Cable Assemblies			Raw Cable			Stainless Steel Cables		
			Threaded <sup>③</sup> CE Connector	List Price	Mult. Sym.	No Connector	List Price	Mult. Sym.	Threaded <sup>③</sup> CE Connector	List Price	Mult. Sym.
	Feet	Meters									
Resolver	5	1.5	CBL015SF-R	163	E8	CBL015RF-R	35	E8	CBL015SF-RS	322	E8
	10	3.0	CBL030SF-R	194	E8	CBL030RF-R	61	E8	CBL030SF-RS	342	E8
	20	6.1	CBL061SF-R	257	E8	CBL061RF-R	116	E8	CBL061SF-RS	375	E8
	30	9.1	CBL091SF-R	318	E8	CBL091RF-R	170	E8	CBL091SF-RS	410	E8
	50	15.2	CBL152SF-R	440	E8	CBL152RF-R	278	E8	CBL152SF-RS	479	E8
	75	22.9	CBL229SF-R	594	E8	CBL229RF-R	387	E8	-	-	-
	100	30.5	CBL305SF-R	749	E8	CBL305RF-R	495	E8	-	-	-
	250	76.0	-	-	-	CBL760RF-R	1145	E8	-	-	-
500	152.5	-	-	-	CBL1525RF-R	2227	E8	-	-	-	
Encoder / Hall Cable	5	1.5	CBL015SF-E	202	E8	CBL015RF-E	57	E8	CBL015SF-ES	369	E8
	10	3.0	CBL030SF-E	257	E8	CBL030RF-E	83	E8	CBL030SF-ES	394	E8
	20	6.1	CBL061SF-E	365	E8	CBL061RF-E	134	E8	CBL061SF-ES	446	E8
	30	9.1	CBL091SF-E	476	E8	CBL091RF-E	185	E8	CBL091SF-ES	497	E8
	50	15.2	CBL152SF-E	694	E8	CBL152RF-E	288	E8	CBL152SF-ES	599	E8
	75	22.9	CBL229SF-E	967	E8	CBL229RF-E	416	E8	-	-	-
	100	30.5	CBL305SF-E	1240	E8	CBL305RF-E	543	E8	-	-	-
	250	76.0	-	-	-	CBL760RF-E	1154	E8	-	-	-
500	152.5	-	-	-	CBL1525RF-E	2170	E8	-	-	-	
			<b>Resolver Feedback Threaded <sup>④</sup> CE Connector and DB9</b>			<b>Encoder Feedback Threaded <sup>④</sup> CE Connector High Density DB15</b>			<b>EnDat Feedback Threaded <sup>④</sup> CE Connector High Density DB15</b>		
For use with Series-II Drives	5	1.5	CBL015SF-R1	225	E8	CBL015SF-E1	267	E8	CBL015SF-D1	258	E8
	10	3.0	CBL030SF-R1	245	E8	CBL030SF-E1	291	E8	CBL030SF-D1	290	E8
	20	6.1	CBL061SF-R1	286	E8	CBL061SF-E1	337	E8	CBL061SF-D1	355	E8
	30	9.1	CBL091SF-R1	326	E8	CBL091SF-E1	384	E8	CBL091SF-D1	420	E8
	50	15.2	CBL152SF-R1	450	E8	CBL152SF-E1	476	E8	CBL152SF-D1	550	E8
	75	22.9	CBL229SF-R1	604	E8	CBL229SF-E1	596	E8	CBL229SF-D1	712	E8
	100	30.5	CBL305SF-R1	759	E8	CBL305SF-E1	707	E8	CBL305SF-D1	874	E8
			<b>Encoder Feedback Threaded <sup>④</sup> CE Connector and Std DB15</b>			<b>SSI Feedback Threaded <sup>④</sup> Connector and Std DB15</b>			<b>BISS <sup>⑤</sup> Feedback Threaded <sup>④</sup> CE Connector and Std DB15</b>		
For Use with MicroFlex	5	1.5	CBL015SF-E2	267	E8	CBL015SF-S2	229	E8	CBL015SF-D2	249	E8
	10	3.0	CBL030SF-E2	290	E8	CBL030SF-S2	253	E8	CBL030SF-D2	272	E8
	20	6.1	CBL061SF-E2	337	E8	CBL061SF-S2	300	E8	CBL061SF-D2	319	E8
	30	9.1	CBL091SF-E2	382	E8	CBL091SF-S2	350	E8	CBL091SF-D2	366	E8
	50	15.2	CBL152SF-E2	475	E8	CBL152SF-S2	446	E8	CBL152SF-D2	461	E8
	75	22.9	CBL229SF-E2	591	E8	CBL229SF-S2	567	E8	CBL229SF-D2	599	E8
	100	30.5	CBL305SF-E2	706	E8	CBL305SF-S2	695	E8	-	-	-

**NOTE:** 1) BSM series require both power and feedback cables. ④ Cable assemblies include two connectors as indicated.  
 2) CE style has shield tied to connector housing. ⑤ BiSS cable for use with MicroFlex e100  
 ③ Cable assemblies include one connector on one end, flying leads other end.

## Mating Connectors

Termination	Motor Type	Description	Number	List Price	Mult. Sym.
Motor Power	BSM50/63/80/90/100	Mate Assy Power CE Threaded Connector (25 amp) (8 pin)	MCSP0W-08	174	E8
	BSM132	Mate Assy Rotatable Power (70 amp)	C/F		
	SSBSM	Mate Assy Power Stainless Steel Threaded Conn (25 amp)	MCSP0W-08S	344	E8
Strain Relief	BSM90/100	PG21 Strain Relief	MCS-PG21	72	E8
		PG29 Strain Relief	ASR24661	62	E8
		Adaptor (PG29 to PG21)	ASR24662	16	E8
		M40 Strain Relief	MCS-M40	62	E8
		Adaptor (M40 to M25)	MCS-M40A	16	E8
Resolver, BiSS, SSI, Hyperface, EnDat	BSM50/63/80/90/100/132	Mate Assy Feedback CE Threaded Connector (12 pin)	MCSRES-12	133	E8
	SSBSM	Mate Assy Feedback Threaded Conn Stainless Steel	MCSRES-12S	379	E8
	BSM - F-Series	F-Series Resolver Mate Assy (14 pin)	MCSN	67	E8
Encoder	BSM50/63/80/90/100/132	Mate Assy Encoder CE Threaded Connector (16 pin)	MCSENC-16	146	E8
	SSBSM	Mate Assy Encoder Threaded Conn Stainless Steel	MCSFNC-16S	379	E8

Shaded areas are stocked products

# Brushless AC Servo Motors



## BSM R-Series

Continuous Stall Torque		Watts	Cont Stall Amps	Winding	Feedback	Brake	Catalog Number	List Price	Multiplier Symbol
Lb-In	N-m								
<b>Metric Mounting with bearing type encoder with cable &amp; connector</b>									
2.8	0.31	100	1.8	100	Encoder (2000 ppr)	N	BSM40R-333MGC	659	E4
				100		Y	BSM40R-333NGC	774	E4
<b>Metric mounting with kit encoder with flying leads</b>									
1.4	0.16	50	0.5	320	Encoder (2000 ppr)	N	BSM40R-240MG	650	E4
				320		Y	BSM40R-240NG	765	E4
2.8	0.31	100	1.0	320	Encoder (2000 ppr)	N	BSM40R-340MG	731	E4
				320		Y	BSM40R-340NG	846	E4

**NOTE:** These motors may not be modified.

## Cable Assemblies

Length		Cable assemblies for bearing type encoder with connector						
Feet	Meters	Motor	List Price	Motor-brake	List Price	Encoder Feedback	List Price	Multiplier Symbol
4	1.2	CBL012SP-05TA	81	CBL012SP-05TB	105	CBL012SF-ETA	159	E8
10	3	CBL030SP-05TA	112	CBL030SP-05TB	136	CBL030SF-ETA	177	E8
20	6.1	CBL061SP-05TA	169	CBL061SP-05TB	193	CBL061SF-ETA	213	E8

Shaded areas are stocked products

# Brushless DC Adjustable Speed Motors & Controls



## BSM 25 & 33-Series

Output		Voltage	Speed	Catalog Number	NEMA	List Price	Multiplier Symbol
Hp	Kw	Vdc	RPM				
1/4	0.18	320	1800	BSM25C-1177MHC	42	311	E4
1/2	0.37	320	1800	BSM25C-2177MHC	42	324	E4
1/2	0.37	320	1800	BSM33C-2177MHQ	56	524	E4
1	0.75	320	1800	BSM33C-3177MHQ	56	577	E4
1.5	1.13	320	1800	BSM33C-4177MHQ	56	661	E4
2	1.5	320	1800	BSM33C-5177MHQ	56	722	E4
3	2.2	320	1800	BSM33C-6177MHQ	56	885	E4

**NOTE:** Standard motors supplied with flying leads

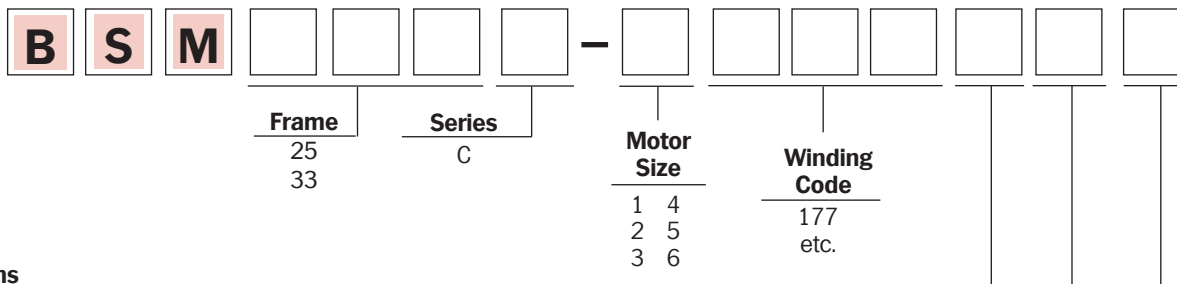


## BMC Series

Bus Voltage		320 VDC					
Output Current Amps (rms)		Input Voltage VAC 50/60 Hz	HP	KW	Catalog Number	List Price	Multiplier Symbol
Cont	Peak						
1.5	3	115/208/230	1/4	0.18	BMC6A01	367	E3
2.4	4.8	115/208/230	1/2	0.37	BMC6A02	400	E3
4	8	115/208/230	1	0.75	BMC6A04	441	E3
5.5	11	115/208/230	1.5	1.13	BMC6A05	474	E3
6.7	13	208/230	2	1.5	BMC2A06	576	E3
9	18	208/230	3	2.2	BMC2A09	661	E3

# Brushless Servo Motor Identification Matrix

## 25 and 33 Series



**Motor Options**

Description	Connections	
	Flying Leads	Rotatable Feedback Connector & Motor Terminal Box
Motor (No Shaft Seal)	M	R
Motor & Brake	N	S
Motor with Shaft Oil Seal	O	T
Motor with Brake & Shaft Oil Seal	P	U

**Feedback Options**

- H = Halls
- A = Resolver
- E = Incremental Encoder w/Commutation (1000 ppr)
- F = Incremental Encoder w/Commutation (2500 ppr)

**Accessory Options**

- Q = Foot & Round Face
- C = Round Face Only
- F = Foot Mount
- C1 = 33 Frame Only IEC Flange MTG
- C2 = 33 Frame Only IEC Face MTG

DC Controls

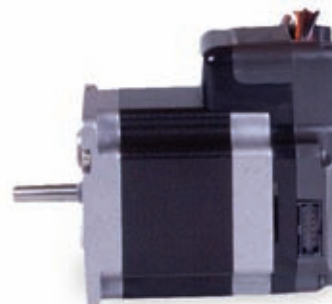
**Adder for BSM25/33C Options**

**Adder for Options**

	Code	Description	25 Frame List Price Adder	33 Frame List Price Adder
<b>Motor Options</b>	M	flying leads	STD	STD
	N	flying leads & brake (24vdc)	130	281
	O	flying leads & oil seal	18	28
	P	flying leads & brake & oil seal	148	309
	R	rotatable feedback connector & motor power terminal box	11	11
	S	rotatable feedback connector & motor power terminal box & brake	141	292
	T	rotatable feedback connector & motor power terminal box & oil seal	29	39
	U	rotatable feedback connector & motor power terminal box & oil seal	159	320
<b>Feedback Options</b>	H	halls	STD	STD
	A	resolver	92	92
	E	encoder 1000 ppr	197	197
	F	encoder 2500 ppr	197	197
	X	other encoder ppr	C/F	C/F
<b>Mounting Options</b>	Q	foot & round face		STD
	C	round face only (inch) 42C 56C	STD	-10
	C1	33 frame only IEC flange mtg	N/A	61
	C2	33 frame only IEC face mtg	N/A	69
	F	foot mount	12	13
	C/F	custom face 42C	C/F	42

# Integrated Stepper/Driver

For use with Baldor NextMove products



Holding Torque		Voltage Range VDC	Catalog number	List Price	Mult. Sym.
oz-in	n-cm				
<b>Flying leads</b>					
32	22.6	12-48	DSMS17F-1A	492	E3
60	42.4	12-48	DSMS17F-2A	507	E3
75	52.9	12-48	DSMS17F-3A	537	E3
90	64	12-75	DSMS23F-1B	636	E3
144	102	12-75	DSMS23F-2B	651	E3
239	169	12-75	DSMS23F-3B	674	E3
381	233	12-75	DSMS34F-1B	979	E3
575	353	12-75	DSMS34F-2B	1058	E3
1061	529	12-75	DSMS34F-3B	1104	E3
<b>P connector</b>					
32	22.6	12-48	DSMS17P-1A	504	E3
60	42.4	12-48	DSMS17P-2A	519	E3
75	52.9	12-48	DSMS17P-3A	549	E3
90	64	12-75	DSMS23P-1B	647	E3
144	102	12-75	DSMS23P-2B	663	E3
239	169	12-75	DSMS23P-3B	687	E3
USB parameter set up cable			CBL055-501	272	E3
manual control knob			DSMS***-**-M	46	E3

Shaded areas are stocked products

# DC Servo Drives



## TSD-Series

Output Current		Bus Volts (VDC)	Input Voltage (Nominal)	Control Catalog Number	Number of Axis	List Price	Mult. Sym.
(Cont.)	(Peak)						
5	10	50	115 VAC	TSD-050-05-1-U	1	919	E3
			115VAC	TSD-050-05-2-U	2	1433	E3
		50	220 VAC	TSD-050-05-1-I	1	919	E3
			220 VAC	TSD-050-05-2-I	2	1433	E3
		100	115 VAC	TSD-100-05-1-U	1	994	E3
			115 VAC	TSD-100-05-2-U	2	1583	E3
		100	220 VAC	TSD-100-05-1-I	1	994	E3
			220 VAC	TSD-100-05-2-I	2	1583	E3

- NOTE:**
- 1) Controls are complete units including mating connectors, a power cord, internal power supply.
  - 2) There are two different internal power supplies:  
 U Option (USA): Has a 115 VAC supply input and standard cord plug.  
 I Option (INT'L): Has a 220 VAC ± 10% (50/60 Hz) supply input. The international cord has no plug on the input side.
  - 3) Inductors: Motor line inductors are not required on TSD Drives.
  - 4) Transformer: No transformer is required. TSD plugs right into the wall (115V, 1 Ph/ 220 VAC with I Option).
  - 5) Continuous output current per axis.



## UM and LD Series

Output Current		Bus Volts (VDC)	Input Voltage (Nominal)	Control Catalog Number	Number of Axis	List Price	Mult. Sym.
(Cont.)	(Peak)						
6	12	100	70 VAC	UM2-100-1-10S	1	1520	E3
				UM2-100-1-20S	2	2126	E3
				UM4-100-2-30S	3	2837	E3
				UM4-100-2-40S	4	3442	E3
				UM6-100-2-50S	5	4292	E3
				UM6-100-2-60S	6	4898	E3
15	30	100	70 VAC	UM2-100-1-01S	1	1606	E3
				UM2-100-1-02S	2	2195	E3
				UM4-100-2-03S	3	3096	E3
				UM4-100-2-04S	4	3789	E3
				UM6-100-2-05S	5	4724	E3
				UM6-100-2-06S	6	5417	E3
15	30	150	105 VAC	UM2-150-1-01S	1	1785	E3
				UM2-150-1-02S	2	2629	E3
				UM4-150-2-03S	3	3576	E3
				UM4-150-2-04S	4	4419	E3
				UM6-150-2-05S	5	5504	E3
				UM6-150-2-06S	6	6347	E3
15	30	160	115 VAC 1 $\phi$	LD2-01S	1	1560	E3
				LD2-02S	2	2230	E3
			115 VAC 3 $\phi$	LD4-03S	3	3015	E3
				LD4-04S	4	3685	E3

- NOTE:**
- ① Continuous output current per card or axis: Note that the power supply on UM2/LD2 can deliver 27 amps continuous max with 1 $\phi$  input; the UM4, UM6 and LD4 can deliver 50 amps continuous max with 3 $\phi$  input.
  - ② Inductors: Motor line inductors are not required on UM or LD type controls.
  - ③ Transformer: An isolation transformer is required on UM Series; the LD4 requires a step down transformer to 115VAC 3 $\phi$
  - ④ The LD control card is not interchangeable with UM control card.

### For Component Parts order per the following:

Control Catalog Number	Control Card			Chassis		
	Catalog Number	List Price	Mult. Sym.	Catalog Number	List Price	Mult. Sym.
UM2-100-1-10S UM2-100-1-20S	UM1506HS-100	607	E3	UM2-100-1	913	E3
UM4-100-2-30S UM4-100-2-40S	UM1506HS-100	607	E3	UM4-100-2	1017	E3
UM6-100-2-50S UM6-100-2-60S	UM1506HS-100	607	E3	UM6-100-2	1259	E3
UM2-100-1-01S UM2-100-1-02S	UM3015HS-100	693	E3	UM2-100-1	913	E3
UM4-100-2-03S UM4-100-2-04S	UM3015HS-100	693	E3	UM4-100-2	1017	E3
UM6-100-2-05S UM6-100-2-06S	UM3015HS-100	693	E3	UM6-100-2	1259	E3
UM2-150-1-01S UM2-150-1-02S	UM3015HS-150	844	E3	UM2-150-1	942	E3
UM4-150-2-03S UM4-150-2-04S	UM3015HS-150	844	E3	UM4-150-2	1046	E3
UM6-150-2-05S UM6-150-2-06S	UM3015HS-150	844	E3	UM6-150-2	1289	E3
LD2-01S LD2-02S	LD3015HS	670	E3	LD2	890	E3
LD4-03S LD4-04S	LD3015HS	670	E3	LD4	1005	E3

Shaded areas are stocked products

# DC Servo Motors



Cont. Stall Torque		Cont. Stall Amps	Nominal Bus Volts	Motor Speed (RPM)	Catalog Number	List Price	Mult. Sym.
Lb-In	N-M						
1.9	0.21	2.1	50	3500	M-2240-ACYAN ①	347	E4
					MT-2240-ACYAN	529	E4
		3.4	30	3000	M-2240-BCYAN	347	E4
MT-2240-BCYAN	529				E4		
MTE-2240-BCBCN	1209				E4		
3.1	0.35	3.4	50	3500	M-2250-ACYAN ①	393	E4
					MT-2250-ACYAN	576	E4
					MT-2250-AMYAN	576	E4
					MTE-2250-AMACN	1296	E4
		5.5	30	3000	M-2250-BCYAN	393	E4
					MT-2250-BCYAN	576	E4
MT-2250-BCYCN	653	E4					
MTE-2250-BCBCN	1296	E4					
6.3	0.71	2.6	100	2800	M-3353-BLYAN ①	504	E4
					MT-3353-BLYAN	653	E4
		MT-3353-BLYCN	732	E4			
5.1	50	2000	M-3353-DLYAN	504	E4		
			MT-3353-DLYAN	653	E4		
8.8	0.99	3.8	100	2800	M-3358-BLYAN ①	529	E4
					MT-3358-BLYAN	676	E4
		6	100	5000	M-3358-CLYAN	529	E4
					MT-3358-CLYAN	676	E4
11.3	1.2	4.9	100	2800	M-3363-BLYAN ①	580	E4
					MT-3363-BLYAN	727	E4
					MT-3363-BCYAN	759	E4
					MT-3363-BLYCN	804	E4
					MT-3363-BDYCN	851	E4
					MTE-3363-BCBCN	1422	E4
		MTE-3363-BLBCN	1448	E4			
		6.3	100	4000	M-3363-CLYAN	580	E4
MT-3363-CLYAN	727				E4		

NOTE: ① Base motor for pricing. See option chart for list price adders.

Shaded areas indicate stocked products



# DC Servo Motors

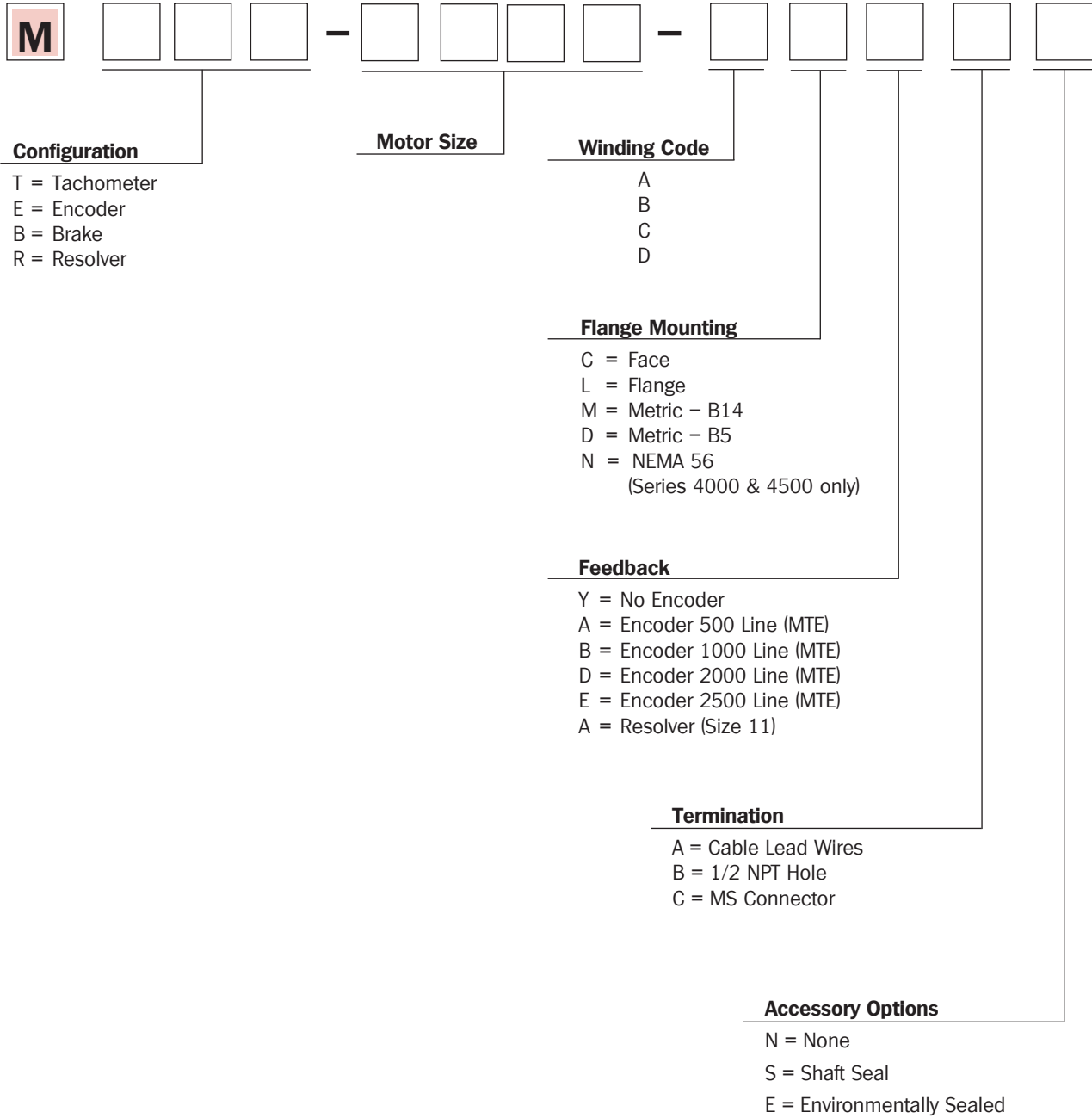


Cont. Stall Torque		Cont. Stall Amps	Nominal Bus Volts	Rated Speed (RPM)	Catalog Number	List Price	Mult. Sym.
Lb-In	N-M						
12	1.4	5.5	100	3000	M-4050-ALYBE ① MT-4050-ALYBE	711 859	E4 E4
		7.9	100	4500	M-4050-BLYBE MT-4050-BLYBE	711 859	E4 E4
21	2.4	5	100	1500	M-4060-ALYBE ① MT-4060-ALYBE	752 900	E4 E4
		7	100	2300	M-4060-BLYBE MT-4060-BLYBE	752 900	E4 E4
28	3.1	6.2	100	1500	M-4070-ALYBE ① MT-4070-ALYBE	846 995	E4 E4
					M-4070-BLYBE MT-4070-BLYBE	846 995	E4 E4
		9.2	100	2300	MT-4070-BLYCE MTE-4070-BLABE MTE-4070-BLACE MTE-4070-BLBCE	1071 1638 1714 1714	E4 E4 E4 E4
40	4.5	9	100	1500	M-4090-ALYBE ① MT-4090-ALYBE	916 1065	E4 E4
					M-4090-BLYBE MT-4090-BLYBE	916 1065	E4 E4
		13	100	2300	MT-4090-BLYCE MTE-4090-BLABE MTE-4090-BLACE MTE-4090-BLBCE	1141 1705 1784 1784	E4 E4 E4 E4
30	3.3	6.1	150	2200	M-4525-BTYCN ① MT-4525-BTYCN	986 1134	E4 E4
		9.2	150	3200	M-4525-CTYCN MT-4525-CTYCN	986 1134	E4 E4
		12	150	4400	M-4525-DTYCN MT-4525-DTYCN	986 1134	E4 E4
40	4.5	5.7	150	1400	M-4535-ATYCN ① MT-4535-ATYCN	1074 1222	E4 E4
		8.3	150	2200	M-4535-BTYCN MT-4535-BTYCN	1074 1222	E4 E4
		11.2	150	2700	M-4535-CTYCN MT-4535-CTYCN	1074 1222	E4 E4
		16.4	150	4500	M-4535-DTYCN MT-4535-DTYCN	1074 1222	E4 E4
50	5.6	8	150	1700	M-4545-ATYCN ① MT-4545-ATYCN	1206 1353	E4 E4
		10.6	150	2300	M-4545-BTYCN MT-4545-BTYCN	1206 1353	E4 E4
		15.7	150	3300	M-4545-CTYCN MT-4545-CTYCN MTE-4545-CTBCE	1206 1353 2226	E4 E4 E4
58	6.5	8.5	150	1500	M-4555-ATYCN ① MT-4555-ATYCN	1531 1679	E4 E4
		12.1	150	2100	M-4555-BTYCN MT-4555-BTYCN	1531 1679	E4 E4
		15.3	150	2900	M-4555-CTYCN MT-4555-CTYCN	1531 1679	E4 E4

NOTE: ① Base motor for pricing. See option chart for list price adders.

Shaded areas indicate stocked products

# DC Servo Motor Identification Matrix



**NOTE:** Some combinations are not available on all motor frame sizes. Contact the local Baldor District Office.

# Options Chart – List Price Adder

## DC Servo Motors

Motor Option Description	Code	Motor Series			
		M2200	M3300	M4000	M4500
<b>Winding Option</b>					
Winding "A"	A	N/C	N/A	N/C	N/C
Winding "B"	B	STD	STD	STD	N/C
Winding "C"	C	N/A	N/C	N/A	STD
Winding "D"	D	N/A	N/C	N/A	N/C
<b>Flange Mounting</b>					
Square (inch)	L	40	STD	STD	N/A
Round (inch)	C	STD	35	53	N/A
NEMA 56 (inch)	N	N/A	N/A	95	147
Round Face	T	N/A	N/A	N/A	STD
Round Flange	H	N/A	N/A	N/A	147
Metric-B5 Flange ③	D	47	47	180	147
Metric-B14 Face ③	M	N/C	N/C	N/C	STD
<b>Feedback Option</b>					
Feedback (Specify MTE, ME)					
Encoder					
500ppr	A		644		759
1000ppr	B		644		759
2000 ppr	D		890		940
2500 ppr	E		890		940
Mounting Provisions Only	Y		259		355
Feedback (Specify MTR, MR)					
Resolver (Size 11)	A		590		766
Mounting Provisions Only	Y		242		320
<b>Termination Option</b>					
Cable Leadwires with Strain Relief	A	STD	STD	10	N/A
NPT Hole 1/2 Inch	B	N/A	N/A	STD	N/A
MS Connector	C	77	77	77	STD
Junction Box	D	N/A	N/A	76	80 ①
MS Rear Mounted Connector (Old Style)	R	74	N/A	N/A	N/A
<b>Accessory Option</b>					
Standard, No Options	N	STD	STD	NC	STD
Environmentally Sealed (Includes Shaft Seal)	E	N/A	49	STD	117
Shaft Oil Seal	S	N/A	35	41	41
<b>Other Option</b>					
Brake ②	B	275	584	675	737
Thermostat Adder	Custom		61		STD

**NOTE:**

STD = Standard

N/C = No additional charge

N/A = Not available

① For motor-tach unit only. Does not include encoder termination which exit via separate MS connector.

② Standard fail safe brake is 24VDC.

③ Includes chrome 12 pin connector on encoder feedback when ordered.

# Accessories for DC Servo Motors

## Cable Assemblies

Any of These Motor Types...	Can Use This Cable Assembly Catalog Number	Number of Connector Pins	Length		List Price	Mult. Sym.
			Meters	Feet		
M, MT-2200 M, MT, MTB, MB-3300	CBL061SP-AF	6	6.1	20	183	E8
MTE, ME, -2200 MTE, ME, MEB, - 3300 MEB,MTEB, -3300	CBL061SC-GN	14	6.1	20	241	E8
M, MT, MB MTB-4050/4060	CBL061SP-AF	6	6.1	20	183	E8
M, MT, MTB MB-4070/4090	CBL061SP-BI CBL091SP-BI	9 9	6.1 9.1	20 30	241 321	E8 E8
MTE, ME, MTEB, MEB 4050/4060/4070/4090	CBL061SC-GP CBL091SC-GP	16 16	6.1 9.1	20 30	241 321	E8 E8
Motor Power Cable For M, MT, MTB, MB-4500 ①	CBL061SP-BI CBL091SP-BI	9 9	6.1 9.1	20 30	241 321	E8 E8
Encoder Feedback For MTE, ME, MEB, MTEB-4500 ①	CBL030SF-BN CBL061SF-BN	14 14	3.0 6.1	10 20	162 241	E8 E8

**NOTE:** ① M-4500 Series with encoder feedback requires two cables; one for motor power and one for feedback.

# Accessories for DC Servo Motors

## Mating Connectors

Any of These Motor Types ...	Can Use This Mating Connector Description	Catalog Number	List Price	Mult. Sym.
M, MT-2200 M,MT,MTB,MB-3300	6 Pin MS Style Connector	MSCF	67	E8
MTE, ME, -2200 MTE, ME, -3300 MEB, MTEB, -3300	14 Pin MS Style Connector	MSCN	67	E8
M, MT, MB, MTB-4050/4060 M-MT, MTB, MB-4070/4090	6 Pin MS Style Connector 9 Pin MS Style Connector	MSCF MSCI	67 67	E8 E8
MTE, ME, MTEB, MEB-4050 4050/4060/4070/4090	16 Pin MS Style Connector	MSCP	67	E8
Motor Connector For M, MT, MTB, MB-4500 ①	9 Pin MS Style Connector	MSCI	67	E8
Encoder Feedback Connector For MTE, ME, MEB, MTEB-4500 ①	14 Pin MS Style Connector	MSCN	67	E8

**NOTE:** ① M-4500 Series with encoder feedback requires two connectors; one for motor power and one for feedback.

## Adapter Plates

Catalog Number	Description	List Price	Mult. Sym.
22-M2200	Adapter Kit For M2200 To Convert C Face To Flange Mounting	40	E8
22-IM2200	Adapter Kit For IM2200 To Convert Metric C Face To Flange Mounting	40	E8

Shaded areas indicate stocked products

# Linear Motor Cog-Free



## LMCF-Series Brushless Servo Motor Coil Assembly

Size Code	Continuous Force		Catalog Number	List Price	Mult. Sym.
	Lbs.	N			
A	1.2	5.3	LMCF02A-HC0	649	E6
	2.5	11	LMCF04A-HC0	755	E6
B	3.1	13.8	LMCF02B-HC0	656	E6
	6.2	27.8	LMCF04B-HC0	761	E6
	8.5	37.5	LMCF06B-HC0	791	E6
	6.5	29	LMCF02C-HC0	712	E6
C	13	58	LMCF04C-HC0	768	E6
	19.5	87	LMCF06C-HC0	891	E6
	26	115.6	LMCF08C-HC0	915	E6
	8.3	36.8	LMCF02D-HC0	725	E6
D	16.5	73.6	LMCF04D-HC0	823	E6
	24.8	110	LMCF06D-HC0	922	E6
	33	147	LMCF08D-HC0	1039	E6
	41.3	183.6	LMCF10D-HC0	1157	E6
	49.6	220.3	LMCF12D-HC0	1187	E6
	28	124	LMCF04E-HC0	853	E6
E	42	185	LMCF06E-HC0	965	E6
	56	251	LMCF08E-HC0	1059	E6
	70	314	LMCF10E-HC0	1206	E6
	85	377	LMCF12E-HC0	1454	E6
	99	440	LMCF14E-HC0	1602	E6
	43	191	LMCF04F-HC0	1570	E6
F	87	387	LMCF08F-HC0	1842	E6
	130	578	LMCF12F-HC0	2170	E6
	173	768	LMCF16F-HC0	2547	E6

**NOTE:** When placing an order in BUS, the Spec Number will begin with "NB".

## Linear Track Cog-Free

Size Code	Catalog Number	List Price	Mult. Sym.
A	LTCF-A4	264	E6
	LTCF-A7	393	E6
	LTCF-A9	525	E6
	LTCF-A12	655	E6
	LTCF-A24	1309	E6
B	LTCF-B4	282	E6
	LTCF-B7	421	E6
	LTCF-B9	562	E6
	LTCF-B12	702	E6
	LTCF-B24	1403	E6
C	LTCF-C4	313	E6
	LTCF-C7	468	E6
	LTCF-C9	624	E6
	LTCF-C12	779	E6
	LTCF-C24	998	E6
	LTCF-C40	1616	E6
D	LTCF-D4	381	E6
	LTCF-D7	572	E6
	LTCF-D9	761	E6
	LTCF-D12	952	E6
	LTCF-D24	1901	E6
E	LTCF-E4	588	E6
	LTCF-E7	881	E6
	LTCF-E9	1172	E6
	LTCF-E12	1465	E6
	LTCF-E24	1758	E6
	LTCF-E40	2091	E6
F	LTCF-F4	1379	E6
	LTCF-F7	2066	E6
	LTCF-F9	2755	E6
	LTCF-F12	3444	E6
	LTCF-F24	4131	E6
	LTCF-F40	5358	E6

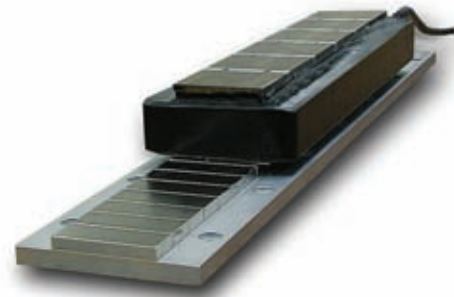
**NOTE:** 1) Linear Tracks are modular and may be placed end-to-end to create longer lengths. 2) Order Linear Track with same "size code" as motor.

For custom non-modular length tracks, use the following (round to nearest inch) and use E6.

Size Code	Catalog Number	List Price per Inch
A	LTCF-Axx	61
B	LTCF-Bxx	66
C	LTCF-Cxx	73
D	LTCF-Dxx	86
E	LTCF-Exx	130
F	LTCF-Fxx	296

Shaded areas indicate standard track

# 36 Linear Motor Iron Core



## LMIC-Series Forcers

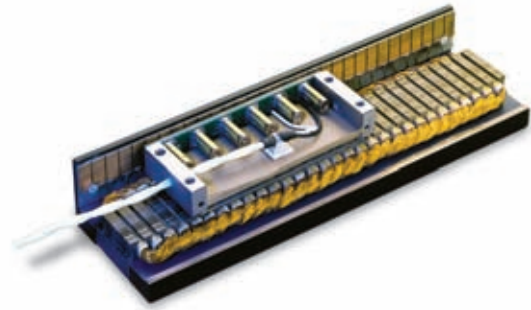
Standard Profile					
Cont. Force		Coil Width Code	Catalog Number	List Price	Mult. Sym.
Lbs	N				
18	80	A	LMIC1A-S-HC0x	1131	E6
55	244	C	LMIC1C-S-HC0x	1401	E6
74	329	B	LMIC2B-S-HC0x	1434	E6
110	489	C	LMIC2C-S-HC0x	1616	E6
184	818	E	LMIC2E-S-HC0x	1990	E6
221	983	D	LMIC3D-S-HC0x	2053	E6
277	1232	E	LMIC3E-S-HC0x	2289	E6
370	1641	E	LMIC4E-S-HC0x	2590	E6
555	2465	F	LMIC5F-S-HC0x	3207	E6
777	3451	G	LMIC6G-S-HC0x	3928	E6
1000	4439	I	LMIC6I-S-HC0x	4721	E6
1166	5179	I	LMIC7I-S-HC0x	5188	E6

## Magnetic Tracks (Match track width code to coil width code)

Standard Profile				
Track Width Code	Catalog Number	List Price	Mult. Sym.	
A	LTIC-AS05	288	E6	
	LTIC-AS08	415	E6	
	LTIC-AS24	657	E6	
	LTIC-AS40	1051	E6	
B	LTIC-BS05	380	E6	
	LTIC-BS08	547	E6	
	LTIC-BS24	1470	E6	
C	LTIC-CS05	506	E6	
	LTIC-CS08	728	E6	
	LTIC-CS24	1195	E6	
D	LTIC-DS05	1724	E6	
	LTIC-DS08	610	E6	
	LTIC-DS24	873	E6	
E	LTIC-ES05	2376	E6	
	LTIC-ES08	702	E6	
	LTIC-ES24	1005	E6	
F	LTIC-FS05	1651	E6	
	LTIC-FS08	2173	E6	
	LTIC-FS24	838	E6	
G	LTIC-GS05	1186	E6	
	LTIC-GS08	3273	E6	
	LTIC-GS24	986	E6	
I	LTIC-IS05	1391	E6	
	LTIC-IS08	3817	E6	
	LTIC-IS24	1203	E6	

Shaded areas indicate standard track

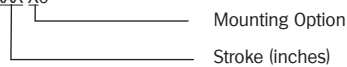
# Linear Motor Brush



## LMBR-Series

Continuous Force		Catalog Number ①②	List Price ③	List Price Adder for Each Inch of Travel ③	Mult. Sym.
Lbs.	N				
4.2	18.7	LMBR06-20XXX-X0	910	53	E6
8.5	37.8	LMBR06-25XXX-X0	903	57	E6
11	49	LMBR06-28XXX-X0	1006	60	E6
13.5	60.1	LMBR06-30XXX-X0	1084	61	E6
15	66.8	LMBR06-33XXX-X0	1133	63	E6
17	75.7	LMBR06-35XXX-X0	1182	66	E6
24	106.8	LMBR06-43XXX-X0	1311	78	E6
26	115.7	LMBR06-45XXX-X0	1353	81	E6
29	129.1	LMBR06-48XXX-X0	1393	83	E6
8.1	36	LMBR12-20XXX-X0	1903	52	E6
21	93.5	LMBR12-28XXX-X0	2002	60	E6
29	129.1	LMBR12-33XXX-X0	2127	61	E6
34	151.3	LMBR12-35XXX-X0	2429	66	E6
47	209.2	LMBR12-43XXX-X0	2558	78	E6
55	244.8	LMBR12-48XXX-X0	2640	83	E6

Example catalog number: LMBR06-20XXX-X0



When placing an order in BUS, the Spec Number will begin with "BM".

- NOTE:**
- ① Under "Mounting Option", specify either option "1" (width "A" – see brochure); or option "2" (width "E"). Price is same for each option.
  - ② Under "Stroke", specify length of stroke or travel in inches (use inch = mm x 0.039). Note maximum stroke is 132 inches, or 11 feet (3.3 meters).
  - ③ List price is for motor primary and secondary with "zero" inches of stroke or travel. Be sure to add to list price the appropriate price adder for each inch of travel, i.e., List Price = "List Price" + "Price Adder" x Inches of Travel (stroke).

# Linear Motor AC Induction



## LMAC-Series

Size Code	Static Force ②		Catalog Number	List Price	Mult. Sym.
	Lbs.	N			
16	14	62	LMAC1607C23XXX	1924	E6
	18	80	LMAC1608C23XXX	2233	E6
	24	106	LMAC1609C23XXX	2573	E6
	28	124	LMAC1610C23XXX	2817	E6
	32	142	LMAC1611C23XXX	3214	E6
	38	169	LMAC1612C23XXX	3488	E6
	42	186	LMAC1613C23XXX	3770	E6
	46	204	LMAC1614C23XXX	4053	E6
	52	231	LMAC1615C23XXX	4346	E6
	58	258	LMAC1616C23XXX	4639	E6
32	28	124	LMAC3207C23XXX	3775	E6
	36	160	LMAC3208C23XXX	4374	E6
	44	195	LMAC3209C23XXX	5048	E6
	52	231	LMAC3210C23XXX	5524	E6
	62	275	LMAC3211C23XXX	6305	E6
	72	320	LMAC3212C23XXX	6841	E6
	78	347	LMAC3213C23XXX	7396	E6
	90	400	LMAC3214C23XXX	7947	E6
	96	427	LMAC3215C23XXX	8523	E6
	100	445	LMAC3216C23XXX	9100	E6

Example catalog number: LMAC1607C23XXX



When placing an order in BUS, the Spec Number will begin with "LN".

**NOTE:** ① Under "Voltage" Option, specify:

- A = 115 VAC
- B = 230 VAC
- C = 380 VAC
- D = 460/480 VAC
- E = 550 VAC
- F = 600 VAC

② Static force indicated is for 100% duty cycle.

When placing an order in BUS, the Spec Number will begin with "LN".



# Linear Motor

## Single-Axis Stepper



## LMSS-Series

### Stepper Motor Forcers

Size Code	Static Force		Catalog Number	List Price	Mult. Sym.
	Lbs.	N			
06	2	8.9	LMSS0602-2WW0	879	E6
	4	17.8	LMSS0604-2WW0	1298	E6
13	5	22.2	LMSS1302-2WW1	1083	E6
	10	44.5	LMSS1304-2AW1	2411	E6
20	20	89	LMSS2004-2AW1	3400	E6
25	25	111.2	LMSS2504-2AW1	3727	E6
	50	222.4	LMSS2508-2AW1	6094	E6

## Stepper Motor Platens

Size Code	Platen Type	Catalog Number ①	List Price ②	List price Adder for Each inch of Platen Length	Mult. Sym.
06	BAR	LTSS06WB-xxx	644 ③	38	E6
13	BAR	LTSS13XB-xxx	671 ③	40	E6
20	BAR	LTSS20WB-xxx	527	28	E6
	TUBE	LTSS20WT-xxx	539	30	E6
	TUBE	LTSS20AT-xxx	557	33	E6
25	BAR	LTSS25XB-xxx	959	47	E6
	TUBE	LTSS25XT-xxx	972	50	E6
	TUBE	LTSS25AT-xxx	989	53	E6

Example catalog number: LTSS06WB-XXX

Length (in inches)

- NOTE:**
- ① Under "Length" designator, specify platen length (in inches). Use Inch = mm x 0.03937, and round up to nearest inch.
  - ② List price is for platen with "zero" inches of Platen Length. Be sure to add to list price, the appropriate price adder for each inch of Platen Length. i.e., List Price = "List Price" + "Price Adder" x Inches of Platen Length.
  - ③ Max length of single piece is 58.25" long. For joining multiple pieces there is a \$434 adder per seam.

# Linear Motor Dual-Axis Stepper



## LMDS-Series Stepper Motor Forcers

Size Code	Static Force		Catalog Number	List Price	Mult. Sym.
	Lbs.	N			
06	3	13.3	LMDS0602-2AO	4322	E6
13	6	26.7	LMDS1302-2AO	5238	E6
	15	66.7	LMDS1304-2AO	9396	E6
20	9	40.0	LMDS2002-2AO	7344	E6
	24	106	LMDS2004-2AO	12419	E6
25	30	133	LMDS2504-2AO	14902	E6

NOTE: 2 and 4 phase prices are the same.

## Dual Axis Platens

Size		Carbon Steel Solid Base		
		Catalog Number	List Price	Mult. Sym.
Inches	[m]			
18 x 13	45.7 x 33	LTDS-E2-S	6244	E6
18 x 16.33	45.7 x 41.4	LTDS-S2-S	6599	E6
23 x 18	58.4 x 45.7	LTDS-Q2-S	7679	E6
33 x 23	83.8 x 58.4	LTDS-H2-S	10066	E6
33 x 33	83.8 x 83.8	LTDS-T2-S	13015	E6
43 x 33	109.2 x 83.8	LTDS-F2-S	16632	E6
55 X 35	139.7 X 88.9	-	-	-
62 x 39	157.4 x 99	-	-	-

## Dual Axis Platens

Size		Honeycomb Base		
Inches	mm	Catalog	List Price	Mult. Sym.
14.8 x 14.8	375 x 375	LTDS-EH-S	\$2,688	E6
14.8 x 19.7	375 x 500	LTDS-SH-S	\$3,024	E6
19.7 x 29.5	500 x 750	LTDS-TH-S	\$4,734	E6
29.5 x 29.5	750 x 750	LTDS-HH-S	\$6,432	E6
29.5 x 39.4	750 x 1000	LTDS-FH-S	\$8,322	E6
29.5 x 44.3	750 x 1125	LTDS-LH-S	\$9,936	E6
29.5 x 59.0	750 x 1500	LTDS-DH-S	\$12,000	E6

# Linear Motor Polynoid



## LMPY-Series Single Phase

No of Coils	Stall Force		Smooth Housing			Finned Housing		
	Lbs.	N	Catalog Number	List Price	Mult. Sym.	Catalog Number	List Price	Mult. Symbol
2	3.7	16.4	LMPY0203-SX1X-X	336	E6	LMPY0205-FX1X-X	385	E6
	2.4	10.6	LMPY0206-SX1X-X	336	E6	LMPY0207-FX1X-X	385	E6
	1	4.4	LMPY0207-SX1X-X	336	E6	LMPY0230-FX1X-X	385	E6
4	7	31.7	LMPY0403-SX1X-X	475	E6	LMPY0405-FX1X-X	555	E6
	3.8	16.9	LMPY0409-SX1X-X	475	E6	LMPY0417-FX1X-X	555	E6
	1.9	8.4	LMPY0421-SX1X-X	475	E6	LMPY0430-FX1X-X	555	E6
	1	4.4	LMPY0445-SX1X-X	475	E6	LMPY0467-FX1X-X	555	E6
6	10.8	48.0	LMPY0602-SX1X-X	685	E6	LMPY0605-FX1X-X	726	E6
	6	26.6	LMPY0608-SX1X-X	685	E6	LMPY0611-FX1X-X	726	E6
	3	13.3	LMPY0614-SX1X-X	685	E6	LMPY0614-FX1X-X	726	E6
	1.5	6.6	LMPY0630-SX1X-X	685	E6	LMPY0645-FX1X-X	726	E6
8	17.5	77.8	LMPY0803-SX1X-X	849	E6	LMPY0805-FX1X-X	884	E6
	7.7	34.2	LMPY0806-SX1X-X	849	E6	LMPY0811-FX1X-X	884	E6
	4.2	18.6	LMPY0809-SX1X-X	849	E6	LMPY0820-FX1X-X	884	E6
	2.1	9.3	LMPY0827-SX1X-X	849	E6	LMPY0850-FX1X-X	884	E6
12	1.2	5.3	LMPY0856-SX1X-X	849	E6	LMPY0899-FX1X-X	884	E6
	27	120	LMPY1203-SX1X-X	1150	E6	LMPY1204-FX1X-X	1150	E6
	12.5	55.6	LMPY1206-SX1X-X	1150	E6	LMPY1215-FX1X-X	1150	E6
	6.9	30.6	LMPY1209-SX1X-X	1150	E6	LMPY1220-FX1X-X	1150	E6
	3.8	16.9	LMPY1222-SX1X-X	1150	E6	LMPY1246-FX1X-X	1150	E6
24	1.7	16.9	LMPY1250-SX1X-X	1150	E6	LMPY1299-FX1X-X	1150	E6
	1	4.4	LMPY1299-SX1X-X	1150	E6	-	-	-
	54	240	-	-	-	LMPY2405-FX1X-X	2332	E6
	24.9	110	-	-	-	LMPY2410-FX1X-X	2332	E6
	14.1	62.7	-	-	-	LMPY2420-FX1X-X	2531	E6
6.3	28	-	-	-	LMPY2437-FX1X-X	2531	E6	

Example catalog number: LMPY0203-SX1X-X

When placing an order in BUS, the Spec Number will begin with "PY".



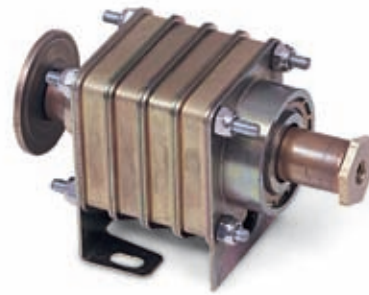
- NOTE:** 1) Under "Electrical Termination" Option, specify either 1 = Conduct Opening; 2 = Grommet Opening; or 3 = Strain Relief. Price is same for each option. Specify 4 = Custom and Contact factory for pricing.  
 2) Under "Voltage Code" Option, specify either A = 115 VAC; B = 230 VAC; C = 380 VAC; D = 460/480 VAC; E = 550 VAC; F = 600 VAC. Price is same for each option.  
 3) Under "Holding Coil" option, specify either code as follows:

Code	Description	List Price	Mult. Sym.
0	No Holding Coil	N/C	E6
1	Holding Coil On One End	115/230 VAC \$100	E6
2	Holding Coil On Both Ends	115/230 VAC \$198	

## Miscellaneous

Description	Length (Inches)	Catalog Listing	List Price	Mult. Sym.	Description	Catalog Listing	List Price	Mult. Sym.
Polynoid Rod	4	LTPY001-073	208	E6	Polynoid Rod	LTPY290-223	55	E6
	6	LTPY001-064	275	E6	End Hold Assembly			
	8	LTPY001-066	342	E6	Polynoid Rod	LMPC299-684	19	E6
	9	LTPY001-067	350	E6	End Adapter			
	10	LTPY001-070	358	E6	Polynoid Single Phase Capacitors	LMPC229-002	42	E6
	12	LTPY001-068	404	E6		LMPC229-004	42	E6
	18	LTPY001-074	485	E6		LMPC229-006	38	E6
	24	LTPY001-075	508	E6		LMPC229-007	28	E6
	36	LTPY001-076	641	E6		LMPC229-008	42	E6
	48	LTPY001-077	802	E6		LMPC229-015	53	E6
	60	LTPY001-078	963	E6		LMPC229-016	42	E6
	72	LTPY001-079	1069	E6		LMPC229-017	42	E6
						LMPC229-033	36	E6
				LMPC229-045		28	E6	

# 42 Linear Motor Polynoid



## LMPY-Series Three Phase

No of Coils	Stall Force		Smooth Housing			Finned Housing		
	Lbs.	N	Catalog Number	List Price	Mult. Sym.	Catalog Number	List Price	Mult. Symbol
3	6.4	28.4	LMPY0304-SX3X-X	417	E6	LMPY0306-FX3X-X	475	E6
	3.6	15.9	LMPY0309-SX3X-X	417	E6	LMPY0313-FX3X-X	475	E6
	2.3	10.2	LMPY0315-SX3X-X	417	E6	LMPY0322-FX3X-X	475	E6
	1.4	6.2	LMPY0327-SX3X-X	417	E6	LMPY0339-FX3X-X	475	E6
	1	4.4	LMPY0341-SX3X-X	417	E6	LMPY0360-FX3X-X	475	E6
6	14.3	28.4	LMPY0603-SX3X-X	685	E6	LMPY0605-FX3X-X	706	E6
	8.4	15.9	LMPY0605-SX3X-X	685	E6	LMPY0610-FX3X-X	706	E6
	5.1	10.2	LMPY0610-SX3X-X	685	E6	LMPY0619-FX3X-X	706	E6
	2	6.2	LMPY0625-SX3X-X	685	E6	LMPY0650-FX3X-X	706	E6
	1	4.4	LMPY0651-SX3X-X	685	E6	LMPY0699-FX3X-X	706	E6
9	23	102	LMPY0903-SX3X-X	874	E6	LMPY0905-FX3X-X	884	E6
	17	75.4	LMPY0904-SX3X-X	874	E6	LMPY0907-FX3X-X	874	E6
	13.3	59	LMPY0905-SX3X-X	874	E6	LMPY0910-FX3X-X	874	E6
	9	39	LMPY0908-SX3X-X	874	E6	LMPY0915-FX3X-X	874	E6
	5.9	26.1	LMPY0912-SX3X-X	874	E6	LMPY0924-FX3X-X	874	E6
	4.5	19.9	LMPY0917-SX3X-X	874	E6	LMPY0933-FX3X-X	874	E6
12	1.5	6.6	LMPY0952-SX3X-X	874	E6	LMPY0999-FX3X-X	874	E6
	27	102	LMPY1202-SX3X-X	1045	E6	LMPY1205-FX3X-X	1045	E6
	18.5	102	LMPY1204-SX3X-X	1045	E6	LMPY1209-FX3X-X	1045	E6
	14	75.4	LMPY1205-SX3X-X	1045	E6	LMPY1212-FX3X-X	1045	E6
	9.3	59	LMPY1209-SX3X-X	1045	E6	LMPY1220-FX3X-X	1045	E6
	7.1	39	LMPY1212-SX3X-X	1045	E6	LMPY1228-FX3X-X	1045	E6
	4.8	21.3	LMPY1218-SX3X-X	1045	E6	LMPY1241-FX3X-X	1045	E6
	2	8.8	LMPY1243-SX3X-X	1045	E6	LMPY1299-FX3X-X	1045	E6
24	1	4.4	LMPY1299-SX3X-X	1045	E6	-	-	-
	54	239	-	-	-	LMPY2405-FX3X-X	2332	E6
	28	1124	-	-	-	LMPY2412-FX3X-X	2332	E6
	18.6	82.5	-	-	-	LMPY2420-FX3X-X	2332	E6
	9.6	42.6	-	-	-	LMPY2441-FX3X-X	2332	E6

NOTE: Refer to notes on previous page.

## Miscellaneous

Description	Catalog Listing	Amps	List Price	Mult. Sym.	Description	Catalog Listing	Amps	List Price	Mult. Sym.
Polynoid Overload Relay ①	LMPO330-001	1	57	E6	Polynoid Overload Relay ①	LMPO330-014	8	61	E6
	LMPO330-002	1.2	57	E6		LMPO330-015	9	61	E6
	LMPO330-003	1.5	57	E6		LMPO330-016	10	61	E6
	LMPO330-004	1.8	57	E6		LMPO330-017	0.1	61	E6
	LMPO330-005	2	57	E6		LMPO330-018	0.2	61	E6
	LMPO330-006	2.5	57	E6		LMPO330-019	0.3	61	E6
	LMPO330-007	3	57	E6		LMPO330-020	0.4	61	E6
	LMPO330-008	3.5	57	E6		LMPO330-021	0.5	61	E6
	LMPO330-009	4	57	E6		LMPO330-022	0.6	61	E6
	LMPO330-010	4.5	57	E6		LMPO330-023	0.7	61	E6
	LMPO330-011	5	57	E6		LMPO330-024	0.8	61	E6
	LMPO330-012	6	57	E6		LMPO330-025	1.3	61	E6
	LMPO330-013	7	57	E6		LMPO330-026	1.4	61	E6

NOTE: Relays rated for 46-500 VAC

# Linear Motor Non-Commutated



## LMNC-Series

(Linear Motor Non-Commutated Moving Coil)

Stroke		Cont. Force		Catalog Number (Spec)	List Price	Mult. Symbol
Inch	mm	Lbs.	N			
0.220	6	0.625	3	LMNC1-1F3-F2 (NC0024A00)	1063	E6
		1	5	LMNC1-1F3-F2 (NC0024A01)	1063	E6
0.200	5	1.5	7	LMNC1-1F5-F2	2183	E6
0.100	3	5	23	LMNC1-2F8-F1	3493	E6
0.500	1.3	9	41	LMNC1-3F8-F5	4636	E6



## LMNM-Series

(Linear Motor Non-Commutated Moving Magnet)

Stroke		Cont. Force		Catalog Number	List Price	Mult. Symbol
Inch	mm	Lbs.	N			
0.150	3.8	0.5	3	LMNM4-F5-F2	1492	E6
0.250	6.4	1.9	9	LMNM2-1F3-F2	2766	E6
0.500	12.7	25	112	LMNM4-2F8-F5	9949	E6
		50	223	LMNM9-2F8-F5	12177	E6
0.600	15.2	0.5	3	LMNM2-F8-F6	1946	E6
0.750	19.1	2.5	12	LMNM2-1F5-F8	2423	E6
1.130	28.6	2.5	12	LMNM2-1F5-1F1	2163	E6
2	50.8	2	9	LMNM2-1F5-2	4610	E6

When placing an order in BUS, the Spec Number will begin with "NC".



# Linear Stage Single Bearing

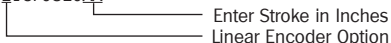
## LSS-Series

Force		Catalog Listing	Base Price	Adder	Length of Stroke																	
					Inch	06	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	
lbs	N				m	0.15	0.30	0.45	0.60	0.76	0.91	1.07	1.22	1.37	1.52	1.67	1.82	1.98	2.13	2.28	2.43	
6	27	LSS1TE1CF04B0xx	4964	1045																		
13	57	LSS1TE1CF04C0xx	5134	1061																		
16	73	LSS1TE1CF04D0xx	6141	1047																		
19	86	LSS1TE1CF06C0xx	5685	1062																		
24	109	LSS1TE1CF06D0xx	7124	1061																		
26	116	LSS1TE1CF08C0xx	6237	1062	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
28	124	LSS1TE1CF04E0xx	9026	1592																		
33	146	LSS1TE1CF08D0xx	8227	1062																		
41	185	LSS1TE1CF06E0xx	10685	1592																		
55	247	LSS1TE1CF08E0xx	12344	1592																		

Example List Price for 6lb (27N) with stroke of 60 inches (1.52m) = BASE PRICE plus ADDER times FACTOR - (ie List Price = \$4964 + \$1045 x 10 = 4964 + 10450 = \$15,414)  
Standard units include 5µm linear encoder (Code E).

**NOTE:** When placing an order in BUS, the Spec Number will begin with "IS".

Example catalog number: LSS1TE1CF08E0XX



# Linear Stage Extruded

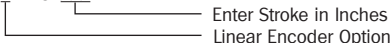
## LSX-Series

Force		Catalog Listing	Base Price	Adder	Length of Stroke																				
					Inch	006	012	018	024	030	036	042	048	054	060	066	072	078	084	090	096	102	108	114	120
lbs	N				m	0.15	0.30	0.45	0.60	0.76	0.91	1.07	1.22	1.37	1.52	1.67	1.82	1.98	2.13	2.28	2.43	2.59	2.74	2.89	3.04
20	89	LSX1TEBL06Axxx	8851	1097																					
30	133	LSX1TEBL08Axxx	9479	1096																					
40	178	LSX1TEBL10Axxx	10028	1041																					
50	222	LSX1TEBL12Axxx	10632	1033	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
60	266	LSX1TEBL14Axxx	11198	1032																					
70	310	LSX1TEBL16Axxx	11690	1014																					
80	356	LSX1TEBL18Axxx	12027	1006																					

Example List Price for 40lb (178N) with stroke of 24 inches (0.6m) = BASE PRICE plus ADDER times FACTOR - (ie List Price = \$10028 + \$1041 x 4 = 10028 + 4164 = \$14,192)  
Standard units include 5µm linear encoder (Code E).

**NOTE:** When placing an order in BUS, the Spec Number will begin with "IX".

Example catalog number: LSX1TEBL18Axxx



# Linear Stage Cross Roller

## LSC-Series

Force		Catalog Listing	Base Price	Adder	Length of Stroke					
					Inch	04	06	08	10	12
lbs	N				m	0.10	0.15	0.20	0.25	0.30
<b>Stage Width 8 inch (230mm)</b>										
10	44	LSC1XE1BL02Axx	8838	1415						
15	66	LSC1XE1BL04Axx	9043	1415						
20	89	LSC1XE1BL06Axx	9325	1398						
30	133	LSC1XE1BL08Axx	9793	1376	1	2	3	4	5	
40	178	LSC1XE1BL10Axx	10283	1349						
50	222	LSC1XE1BL12Axx	10630	1360						

Example List Price for 15lb (66N) with stroke of 8 inches (0.20m) = BASE PRICE plus ADDER times FACTOR - (ie List Price = \$9043 + \$1415 x 3 = 9662 + 4245 = \$13,288)

Under mounting option, specify either T=Table or W=Wall mounting. Price is same for either option. Standard units include 5µm linear encoder (Code E).

**NOTE:** When placing an order in BUS, the Spec Number will begin with "IK".

Example catalog number: LSC1XC1BL12Axx



# Linear Stage Enclosed Positioning



## LSE-Series

				Length of Stroke																
				Inch	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	
				m	0.30	0.45	0.60	0.76	0.91	1.07	1.22	1.37	1.52	1.67	1.82	1.98	2.13	2.28	2.43	
Force		Catalog Listing	Base Price	Adder	Times Factor of															
lbs	N																			
<b>Stage Width 8 inch (230mm)</b>																				
20	89	LSE081E1BL06Axx	13802	1572	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
30	133	LSE081E1BL08Axx	14418																	
40	178	LSE081E1BL10Axx	15035																	
50	222	LSE081E1BL12Axx	15649																	
60	266	LSE081E1BL14Axx	16265																	
70	310	LSE081E1BL16Axx	16882																	
80	356	LSE081E1BL18Axx	17499																	
<b>Stage Width 12 inch (305mm)</b>																				
20	89	LSE121E1BL06Axx	13765	1495	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
30	133	LSE121E1BL08Axx	14429																	
40	178	LSE121E1BL10Axx	15092																	
50	222	LSE121E1BL12Axx	15754																	
60	266	LSE121E1BL14Axx	16419																	
70	310	LSE121E1BL16Axx	17080																	
80	356	LSE121E1BL18Axx	17763																	
				Inch	012	018	024	030	036	042	048	054	060	066	072	078	084	090	096	
				m	0.30	0.45	0.60	0.76	0.91	1.07	1.22	1.37	1.52	1.67	1.82	1.98	2.13	2.28	2.43	
<b>Stage Width 12 inch (305mm)</b>																				
30	133	LSE121E1BL06Bxx	14786	1790	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
45	200	LSE121E1BL08Bxx	15650																	
60	266	LSE121E1BL10Bxx	16551																	
75	333	LSE121E1BL12Bxx	17453																	
90	400	LSE121E1BL14Bxx	18355																	
105	467	LSE121E1BL16Bxx	19258																	
120	534	LSE121E1BL18Bxx	20119																	
				Inch	012	018	024	030	036	042	048	054	060	066	072	078	084	090	096	
				m	0.30	0.45	0.60	0.76	0.91	1.07	1.22	1.37	1.52	1.67	1.82	1.98	2.13	2.28	2.43	
<b>Stage Width 14 inch (355mm)</b>																				
60	266	LSE141E1BL06Axx	21609	3008	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
90	400	LSE141E1BL08Axx	23363																	
120	534	LSE141E1BL10Axx	25305																	
150	667	LSE141E1BL12Axx	27250																	
180	801	LSE141E1BL14Axx	29189																	
210	934	LSE141E1BL16Axx	31134																	
240	1068	LSE141E1BL18Axx	32886																	

Example List Price for 240lb (1068N) with stroke of 24 inches (0.6m) = BASE PRICE plus ADDER times FACTOR - ie List Price = \$32,886 + \$3008 x 3 = 32,886 + 9024 = \$41,910

Standard units include 5µm linear encoder (Code E).

**NOTE:** When placing an order in BUS, the Spec Number will begin with "IE".

Example catalog number: LSE141E1BL18BXX

Linear Encoder Option  Enter Stroke in Inches   
 Number of Motors

### Linear Stage Encoder Options

Code	Resolution	List Adder
A	0.1 µm	1236
B	0.5 µm	928
C	1 µm	619
D	2 µm	310

Code	Resolution	List Adder
E	5 µm	Std
F	10 µm	N/C
G	20 µm	N/C
Z	other	contact factory

# Index

22-IM2200 ..... 33	BSM100C-5150AA ..... 12	BSM60R-333MGC ..... 24	BSM80N-333AA ..... 13
22-M2200 ..... 33	BSM100C-5250AA ..... 12	BSM60R-333NGC ..... 24	BSM80N-350AA ..... 13
2R-BSM63 ..... 23	BSM100C-6150AA ..... 12	BSM63N-133AA ..... 13	BSM80N-350AF ..... 14
3R-BSM80 ..... 23	BSM100C-6150AF ..... 12	BSM63N-150AA ..... 13	BSM80N-375AA ..... 13
4R-BSM90 ..... 23	BSM100C-6250AA ..... 12	BSM63N-175AA ..... 13	BSM80N-375AF ..... 14
56-BSM90 ..... 23	BSM100FN3-1 ..... 17	BSM63N-175AF ..... 14	BSM80N-375BA ..... 14
6R-BSM100 ..... 23	BSM100FN3-2 ..... 17	BSM63N-175BA ..... 14	BSM90C-1150AA ..... 12
750-338 ..... 8	BSM100FN4-1 ..... 17	BSM63N-233AA ..... 13	BSM90C-2150AA ..... 12
750-348 ..... 8	BSM100FN4-2 ..... 17	BSM63N-250AA ..... 13	BSM90C-2150AF ..... 12
750-400 ..... 8	BSM100FN5-1 ..... 17	BSM63N-275AA ..... 13	BSM90C-2250AA ..... 12
750-402 ..... 8	BSM100FN5-6 ..... 17	BSM63N-275AF ..... 14	BSM90C-275AA ..... 12
750-430 ..... 8	BSM100FN6-1 ..... 17	BSM63N-275BA ..... 14	BSM90C-275AF ..... 12
750-456 ..... 8	BSM100FN6-2 ..... 17	BSM63N-333AA ..... 13	BSM90C-3150AA ..... 12
750-461 ..... 8	BSM100N-1150AA ..... 13	BSM63N-350AA ..... 13	BSM90C-3150AF ..... 12
750-468 ..... 8	BSM100N-1150BA ..... 14	BSM63N-375AA ..... 13	BSM90C-3150BA ..... 12
750-480 ..... 8	BSM100N-1250AA ..... 13	BSM63N-375AF ..... 14	BSM90C-3250AA ..... 12
750-492 ..... 8	BSM100N-2150AA ..... 13	BSM63N-375BA ..... 14	BSM90C-3250AF ..... 12
750-501 ..... 8	BSM100N-2150AF ..... 14	BSM6NR-233MGC ..... 24	BSM90C-375AA ..... 12
750-504 ..... 8	BSM100N-2250AA ..... 13	BSM6NR-233NGC ..... 24	BSM90FN2-1 ..... 17
750-530 ..... 8	BSM100N-3150AA ..... 13	BSM6NR-333MGC ..... 24	BSM90FN2-2 ..... 17
750-550 ..... 8	BSM100N-3150AF ..... 14	BSM6NR-333NGC ..... 24	BSM90FN3-1 ..... 17
750-552 ..... 8	BSM100N-3150BA ..... 14	BSM80C-150AA ..... 12, 24	BSM90FN3-2 ..... 17
750-554 ..... 8	BSM100N-3250AA ..... 13	BSM80C-150AF ..... 12, 24	BSM90FN4-1 ..... 17
750-556 ..... 8	BSM100N-3250AF ..... 14	BSM80C-175AA ..... 12	BSM90FN4-2 ..... 17
750-600 ..... 8	BSM100N-4150AA ..... 13	BSM80C-175AF ..... 12	BSM90N-1150AA ..... 13
750-601 ..... 8	BSM100N-4250AA ..... 13	BSM80C-175BA ..... 12	BSM90N-1150AF ..... 14
750-614 ..... 8	BSM100N-4250AF ..... 14	BSM80C-2150AA ..... 12	BSM90N-1250AA ..... 13
750-963 ..... 8	BSM25C-1177MHC ..... 25	BSM80C-250AA ..... 12	BSM90N-175AA ..... 13
ASR24661 ..... 22	BSM25C-2177MHC ..... 25	BSM80C-250AF ..... 12	BSM90N-175AF ..... 14
ASR24662 ..... 22	BSM33C-2177MHQ ..... 25	BSM80C-275AA ..... 12	BSM90N-175BA ..... 14
BMC2A06 ..... 25	BSM33C-3177MHQ ..... 25	BSM80C-275AF ..... 12	BSM90N-2150AA ..... 13
BMC2A09 ..... 25	BSM33C-4177MHQ ..... 25	BSM80C-275BA ..... 12	BSM90N-2150AF ..... 14
BMC6A01 ..... 25	BSM33C-5177MHQ ..... 25	BSM80C-3150AA ..... 12	BSM90N-2250AA ..... 13
BMC6A02 ..... 25	BSM33C-6177MHQ ..... 25	BSM80C-350AA ..... 12	BSM90N-275AA ..... 13
BMC6A04 ..... 25	BSM40R-333NGC ..... 24	BSM80C-375AA ..... 12	BSM90N-275AF ..... 14
BMC6A05 ..... 25	BSM4NR-333MGC ..... 24	BSM80C-375AF ..... 12	BSM90N-3150AA ..... 13
BSM100C-1150AA ..... 12	BSM4NR-333NGC ..... 24	BSM80C-375BA ..... 12	BSM90N-3150AF ..... 14
BSM100C-1250AA ..... 12	BSM50N-133AA ..... 13	BSM80C-4150AA ..... 12	BSM90N-3250AA ..... 13
BSM100C-2150AA ..... 12	BSM50N-133AF ..... 14	BSM80C-475AA ..... 12	BSM90N-375AA ..... 13
BSM100C-2150AF ..... 12	BSM50N-175AA ..... 13	BSM80C-475AF ..... 12	BSM90N-375BA ..... 14
BSM100C-2250AA ..... 12	BSM50N-175AF ..... 14	BSM80N-133AA ..... 13	CBL001-501 ..... 9
BSM100C-2250AF ..... 12	BSM50N-233AA ..... 13	BSM80N-150AA ..... 13	CBL004-501 ..... 9
BSM100C-3150AA ..... 12	BSM50N-233AF ..... 14	BSM80N-150AF ..... 14	CBL004-502 ..... 9
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